

<110> Ruben et. al.

<120> 97 Human secreted proteins

<130> PZ028P2

<140> Unassigned

<141> 2001-09-10

<150> 60/231,846

<151> 2000-09-11

<150> 09/892,877

<151> 2001-06-28

<150> 09/437,658

<151> 1999-11-10

<150> PCT/US99/09847

<151> 1999-05-06

<150> 60/085,093

<151> 1998-05-12

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<151> 1998-05-18

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<160> 465

<170> PatentIn Ver. 2.0

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tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240
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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc      420
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 <223> Xaa equals any of the twenty naturally occurring L-amino acids

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gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
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<213> Homo sapiens

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<212> DNA  
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ccatctcaat tag 73

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cagttccgcc	cattctccgc	cccatggctg	actaattttt	tttatttatg	cagaggccga	180
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<213> Homo sapiens

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taggctgggtg	cgacgtggcg	tacaacttcc	tggttgggga	tgatggcagg	gtgtatgaag	360
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gcactccagt	ctgggagaca	gagtgcagct	gtctcaaaaac	aacaacaaaa	aaatccctaa	1140
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tccacagatt	ttgaagtaca ccgaaactgg cttgctatca ctcacagttt gccaatatca 180
cagtgggtatt	atgaggcaac ttcagagtgg acgttggatt accccccttt ctttgcattg 240
tttgagtata	tcctgtcaca tggtgccaaa tttttgatc aagaaatgct gaatgtccat 300
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aaaaccgacc	gctcctcatt	aagctgaaga	ctcaaacatc	cacggagtac	ttcctggagg	360
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<213> Homo sapiens

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aacaccaca acttgaattt gtatcatggg aggtgggagg gagtggctta gaggtgtctg 1440
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<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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ctctatctcc agagccaaaa tcaagatttg ctatgtaga cgatgtaaaa attttagcca 180  
atggcctcct tcagttggga catggtctta aagactttgt ccataagacg aagggccaaa 240  
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ccattttataa cagaggtgaa catacaagtg gcatgtatgc atncagaccc agcaactctc 840  
aagtttttca tgtctactgt gatgttatat caggtagtcc atggacatta attcaacatc 900  
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<223> n equals a,t,g, or c

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<220>  
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&lt;211&gt; 1508

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

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&lt;211&gt; 1447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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&lt;211&gt; 3886

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1050)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3743)

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<222> (3848)

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&lt;210&gt; 24

&lt;211&gt; 1583

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

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 <222> (587)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1668)  
 <223> n equals a,t,g, or c

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&lt;210&gt; 26

&lt;211&gt; 1053

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1025)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 26

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&lt;210&gt; 27

&lt;211&gt; 1477

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 27

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&lt;210&gt; 28

&lt;211&gt; 2504

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

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&lt;210&gt; 29

&lt;211&gt; 1866

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 29

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&lt;210&gt; 30

&lt;211&gt; 1501

&lt;212&gt; DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (434)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (441)

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<220>

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<222> (1300)

<223> n equals a,t,g, or c

<400> 30

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<210> 31

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1099)

<223> n equals a,t,g, or c

<400> 31

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&lt;210&gt; 32

&lt;211&gt; 2152

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

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&lt;210&gt; 33

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 33

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&lt;210&gt; 34

&lt;211&gt; 1466

&lt;212&gt; DNA

<213> Homo sapiens

<400> 34

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<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (283)

<223> n equals a,t,g, or c

<400> 35

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<210> 36

<211> 2412

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c
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<222> (340)  
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (977)
<223> n equals a,t,g, or c
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<222> (1117)  
<223> n equals a,t,g, or c
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[illegible]

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<210> 37
<211> 1274
<212> DNA
<213> Homo sapiens

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<210> 38
<211> 1036
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (43)
<223> n equals a,t,g, or c

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<220>
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<222> (47)
<223> n equals a,t,g, or c

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<220>
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<222> (58)
<223> n equals a,t,g, or c

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&lt;210&gt; 39

&lt;211&gt; 1379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

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agggcct	ga	ga	ga	aa	gc	300
agaattt	gt	ca	aa	gc	gc	360
gcagcaag	tc	ag	ac	tc	gc	420
gctgggt	gg	tc	ca	ag	gc	480
ccctgaag	ct	gc	tc	gc	cc	540
gaacagag	ag	gc	cc	gc	gc	600
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gctacttt	ga	gg	ca	gc	gc	720
gtgcccga	tg	ca	gc	gc	gc	780
tgcatcac	ct	ca	gc	gc	gc	840
ctgacca	at	ct	gc	gc	gc	900
gcctaggt	ct	gc	gc	gc	gc	960
aggtgggc	ct	gc	gc	gc	gc	1020
acaagcag	tg	aa	gc	gc	gc	1080
agatgga	ag	cat	ct	gc	gc	1140
taaccctg	ta	aa	gc	gc	gc	1200
aaatgaag	at	gc	gc	gc	gc	1260
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ctctgcccc	aa	ct	gc	gc	gc	1379

&lt;210&gt; 40

&lt;211&gt; 1932

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (293)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 40

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&lt;210&gt; 41

&lt;211&gt; 1430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 41

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&lt;210&gt; 42

&lt;211&gt; 1407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (353)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 42

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aaaaaaaaaa	aaaaaaaaaag	ggcggcc				1407

&lt;210&gt; 43

&lt;211&gt; 950

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

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&lt;210&gt; 44

&lt;211&gt; 1004

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

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&lt;210&gt; 45

&lt;211&gt; 1681

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

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 <211> 1361  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
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ttaccgcttc	tttgcttgga	catcccat	tcctttgtcc	agacccatgt	tggcaatcat	360
gtatgaactg	tggtatactt	tcagtgcctt	cttttttctt	tttgataaga	tggatatcaa	420
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&lt;211&gt; 2763

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

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&lt;211&gt; 1660

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 51

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&lt;210&gt; 52

&lt;211&gt; 1678

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 52

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&lt;210&gt; 53

&lt;211&gt; 1860

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (912)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 53

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&lt;210&gt; 54

&lt;211&gt; 1663

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (975)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 54

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 <211> 1632  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 taagctgat ccgggccatc ctgaaagtcc ctgaagatcc aaccagtgct tttctgcttt 660  
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 aaaaaactcg ag 1632

<210> 56  
 <211> 2233  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
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 accaggttgg gtgtgtccat gccgtagctt ggggtgaactc agctctttac acagtcctct 180  
 gcccttttct gggaaagccc aaatgttcat tctcatttga taggaacgag agtgaggatt 240  
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<210> 57  
 <211> 1963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1540)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1935)  
 <223> n equals a,t,g, or c

<400> 57						
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&lt;210&gt; 58

&lt;211&gt; 1267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1248)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1255)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 58

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cttttagt						1267

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 <211> 1295  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcgag 1295

<210> 60  
 <211> 915  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
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 aaggctgtgg ctggccgggc gcggtggctc acgctggtaa tcccagcact ttgggaggct 660  
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 aaaatacaaa aaatcagccg ggcgtggtgg cgggtgcctg tagtcccagc tactcagaga 780  
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<210> 61  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1047)  
 <223> n equals a,t,g, or c

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 agtagtggtt ttatttctgt gcttctccct cctaacagaa tgtaaaacct ttgaaccag 180  
 gtcagagagg tctttatttt catatcccct gtgatgtcta atttatttgg atttacagat 240  
 aaatgatcgg taaacttttag aaacagcact ccagtttata gctctgtgct gtagacttac 300  
 tgaacaacta cagtgaacc aattcaaaaa gggatatttt gtattatgat ttagtctcct 360  
 acttccaagg ctagttttta aggctgtgaa ggggaagctga aaatgacaca gtgtttctgg 420  
 gatgaccaga cagacactgt atccagagat gctgtctgcg cagcggggga tagtaaacc 480  
 cttagtacaa cattaattgg catggtggtt tatgagttaa tgtaatacca aatattaaca 540  
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 gccagaaaa caatgaacat tgttgtccta cagctatttt gtcactgtga tgatacctaa 660  
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 aaaacttcat aaagctggca caggtaacat atttagtttt gtatatctgc tgtccaattt 780  
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 aatatatact tcacacttca cagttgctca tgtcagaaca gactattgaa aatgtaaacc 1140  
 tggccaggca cgggtgtcac gcctgtaatc ccagcacatt gggaggctga ggcaggcgga 1200  
 tcacttgagg tcaggagttt gagaccagcc tggccaacat ggtgaaacct tgtatctgct 1260  
 aaaaatgcc aaaaatttag taggcatagt ggtgcacgcc tataacccca gctacttggt 1320  
 aggtgagggc aggagaattg cttgaaccca ggaggcggag gttgcagtga accaagatca 1380  
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 ctgga 1445

<210> 62  
 <211> 1100  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 ttttagtaac taccctttca tgtttcttta actcttgaaa tattttatta ggggttgagc 180  
 attcatgatg gtacctgga gtcagcaatt tatggttttg gagatcagag taatttgaga 240  
 aaactaagaa atgtatcaaa tctgaaacct gtcccgtca ttggtccaaa attgaagaga 300  
 aggtggccaa tttcttattg tccgggaactc aaagggttatt ccattccttt tatgggatct 360  
 gatgtgtctg ttgtaaggag gactcaacgt tacttgtatg aaaatttaga ggaatcacca 420  
 gttcagtatg ctgcgtatgt aactgtggga ggcacacact ctgttattaa gctgatgttt 480  
 gcaggacttt tctttttgtt ctttgtgagg tttggaattg gaaggcaact tctcataaaa 540  
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 gataagaaca aaccaaatat caaaatttgt actcaggtga aaggaccaga ggctggctat 720  
 gtggctaccc ccatagctat ggttcaggca gccatgactc ttctaagtga tgcttctcat 780  
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 gaaattcttc tgtaagcctg tctgagtgtg tgtggaaacg attgtcaaat ctaaaatatc 1020  
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<211> 1499
<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
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<220> .
<221> SITE
<222> (66)
<223> n equals a,t,g, or c
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<222> (84)  
<223> n equals a,t,g, or c
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[illegible]

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<211> 655
<212> DNA
<213> Homo sapiens
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<400> 64  
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gaagaggggac	agatccagat	tatggagcct	gtccagggtca	ctgtaggtga	ctcggtaata	240
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gagccttccc	caccgtaaac	tatggactct	agttcagttt	tatatgcaat	ggatcactac	600
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<210> 65  
 <211> 1450  
 <212> DNA  
 <213> Homo sapiens

<400> 65						
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ccccctcagcc	ctgtggctgg	gggcagagct	cagactgtct	tctgaagatt	gatgtctatt	180
tccttgagct	ctttaatttt	gttgccaatt	tggataaaca	tggcacaaat	ccagcagggga	240
ggtccagatg	aaaaagaaaa	gactaccgca	ctgaaagatt	tattatctag	gatagatttg	300
gatgaactaa	tgaaaaaaga	tgaaccgcct	cttgattttc	ctgataccct	ggaaggattt	360
gaatatgctt	ttaatgaaaa	gggacagtta	agacacataa	aaactgggga	accatttggt	420
tttaactacc	gggaagattt	acacagatgg	aaccagaaaa	gatacgaggc	tctaggagag	480
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ttgacaaatc	cacagaaact	gatggtttta	attcatggta	gtggtgttgt	cagggcaggg	660
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tatgagaagt	atcgtaacct	ccaaagagaa	aaagaaatga	tgcaattgta	tatcagagaa	960
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aaaaaaaaaa						1450

<210> 66  
 <211> 670  
 <212> DNA  
 <213> Homo sapiens

<400> 66						
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ccccccatca	aaacgctcag	agacgttggtg	atgatgcgac	tgaggattat	gcaacgtggt	480
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aaagacaaga	cccttgggag	ttttaattct	gttttgtact	tgccctgtgg	ggcctccact	600
gcttttctat	gggagacact	cttaatttaa	cagatgagaa	tattttgaaa	aaaaaaaaaa	660
aaaaaaaaaa						670

&lt;210&gt; 67

&lt;211&gt; 1692

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

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acccaattcg	cc					1692

&lt;210&gt; 68

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 68

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gaaagcagaa	gtgatattta	awacacttgg	tatgttttat	atatwgattc	taatgataat	480

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<210> 69  
 <211> 1618  
 <212> DNA  
 <213> Homo sapiens

<400> 69							
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<210> 70  
 <211> 1802  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1790)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1792)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1801)

<223> n equals a,t,g, or c

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nt 1802

<210> 71

<211> 1292

<212> DNA

<213> Homo sapiens

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 <212> DNA  
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gtctcaaccc	tattgcctat
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<210> 73  
 <211> 785

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<212> DNA
<213> Homo sapiens
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<223> n equals a,t,g, or c
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<220>  
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<211> 2341
<212> DNA
<213> Homo sapiens
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<222> (163)  
<223> n equals a,t,g, or c
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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2243)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2309)

<223> n equals a,t,g, or c

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<210> 75

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (755)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1866)

<223> n equals a,t,g, or c

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<210> 76

<211> 2892

<212> DNA

<213> Homo sapiens

<220>



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&lt;222&gt; (858)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 76

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&lt;210&gt; 77

&lt;211&gt; 1673

<212> DNA  
<213> Homo sapiens

<400> 77  
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<210> 78  
 <211> 1461  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
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gatcaagaac	agtaacagtg	ctctgcaggc	ctcgatcatt	aactgccaac	aaaatctaca	1320
ggacaattcc	aaatgtctgc	aaaagaaaaa	catgaaaaat	tcatactgat	aattatagat	1380
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<210> 79  
 <211> 1517  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1145)  
 <223> n equals a,t,g, or c

<400> 79						60
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tggactttca	tggcaggctg	ccttggttca	tatcttttgg	taatgatact	tatcctctgt	300
ragggccatt	tctttatttg	tggaaatgaa	gacaatagag	tgcttagata	taatttagaa	360
caatgtccgt	cacatagtaa	acacgtaata	aacggtagct	cttattgtta	ttattattac	420
tattattacc	ttgaagacag	gggctctgtc	ttgttcatca	ttccatctcc	agctcttagc	480
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<210> 80  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 80						60
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<210> 81  
 <211> 1455  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (390)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (456)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1100)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1293)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1409)  
 <223> n equals a,t,g, or c

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<210> 82  
 <211> 1640  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (687)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (764)  
 <223> n equals a,t,g, or c

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 <211> 525  
 <212> DNA  
 <213> Homo sapiens

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 caagatataa atgccagtca tttattaaaa aaaaaaaaaa aaaaa 525

<210> 84  
 <211> 837  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (717)  
 <223> n equals a,t,g, or c

<400> 84  
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<210> 85  
 <211> 1574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (873)  
 <223> n equals a,t,g, or c

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&lt;210&gt; 86

&lt;211&gt; 1628

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

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aacaaaaaaaaa gcttttttgc gtatcacacc acctaaagtt tggctagtga acatgagcag 1560  
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 ggggtgggc 1628

<210> 87  
 <211> 1795  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
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 atgactggcc ctatatcatc taatagatag tccttttcat catggagatg aattattgtg 180  
 ggtccagagt tttgtatatg tctctaacc tgctaggag tccaatcata cccttgtggg 240  
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 agaaaacaat caaagtgaag agacaaccca cagaatggga gaaaatattt gcaaaactacc 720  
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<210> 88  
 <211> 1864  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1844)  
 <223> n equals a,t,g, or c

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 cttcctgcag aaagtctttt ctttactata attgagtaat tcataattag agtcacatgt 180  
 ccagtagcat ttctaatttt gagcattcac cttgctacct ttaaaaaaca tctgagtttt 240



aagtggcctt	tttatcatca	tacacatgtg	catacaaaga	agggacttgg	cagtttataaa	300
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caatatgcaa	tgtgctgtta	ttctaccatg	taccttaa	aaaggatgat	ggcaaagtta	600
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taatttgcac	atttttagtt	tataaagt	taagtataaa	tgtccattat	tgaagggaaa	1740
agatctttca	ataaaaaata	cccacgaaaa	aaaaaaaaaa	aaaaaggcg	gccgtctag	1800
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gctt						1864

<210> 89  
 <211> 1983  
 <212> DNA  
 <213> Homo sapiens

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cacgttagcg	tatgccacag	ctttgttgaa	tgaaaaagag	caatcaggaa	gcagtaattg	360
gtcggagagt	agtccctgcca	atgagaacgg	agacaggcat	ctacagcagg	tataacggtc	420
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attctctccg	cgtcgacgcg	gccgcgaatt	cccgggtcga	cgagctcact	agtcggcggc	1980
cgc						1983

&lt;210&gt; 90

&lt;211&gt; 1957

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (349)

&lt;223&gt; n equals a,t,g, or c

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aagtttgctg	acattgttgc	aaatgcttat	cagaatgaat	cctatatattt	tatttaaaat	180
gatcgtgtca	ttttcaatca	ggcagcccat	ccaaacatgc	ggacctatta	tttctgcaat	240
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ttaataaagt	cttggctttt	tggctaaaag	acttaggttg	atgctgtgta	tttgtgctat	1380
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gtgagaccct	gtcaaaaaaa	aaaaaaaaaa	aactcga			1957

<210> 91  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

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<400> 91
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ccggcccttt gtttgacttg cgtcgtctga tactcagtat tgtagctttt tgtccgcatg      180
ttactccctg taaatacgct gttatacata ctgttaacac ccctttgctt tttctatggg      240
acctccaggc caccatattt agaactagtt accttattaa aaaagaaaaa acagtctgtt      300
ggcttctcag tctgcatctt ggaggcaggg aggtgagggc aggtgcccct cagacacttc      360
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ggggggaaaa cactaaaggg ggcaagaaac aaaggaatta caaacctctt gctctttgta      480
tttctctgtt gtgaagaata aactgtacct gcacccggaa aaaaaaaaaa aaaaaaaaaa      540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa                               573
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<210> 92  
 <211> 1212  
 <212> DNA  
 <213> Homo sapiens

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<400> 92
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taagggattt gttccaggtc acatagctag ttgttgctaa tagaaaggac aagtatgtag      180
ataccagcca cagttttttt agtatctcta cgccctattg cctttccttt aactttaagc      240
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cattacttga ggaatttaat attttattag ccccttcttc tcaatggcct ttgtgctctt      600
ctggttcttg ttatctgtgt tcttttctgg ccttctgcct tgaccatttc ttttggcccc      660
tgccttgga attagtacat aattttaccct cattttggct tcacatgatc cagctacagc      720
aagacccaaa taagaaaaga tggtacagcg acattgatga agttggtcta acacagaaac      780
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cccctctcta caaaaaatmc aaaaattagc csggcatggt ggcacacaac tgtagtctca      1080
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<210> 93  
 <211> 1144  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (849)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (865)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1087)  
 <223> n equals a,t,g, or c

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 agcccatact actgggagag gattacacaa gaacatgtgg gtagaaatgg gaataacttc 180  
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 ggtctttcta gagaaaaata cagtaataat gggatgacag aaggccatgt gttttgtttt 360  
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 aaactttagt tttaatcttt atcatcatca ttatcacata atttacctcc tagtttagat 600  
 ttggagcttg ttttagatta atackttaca gagtagtttt acatgaataa gcttaaacat 660  
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 cgag 1144

<210> 94  
 <211> 1274  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (722)  
 <223> n equals a,t,g, or c

<400> 94  
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 ggtgcggcgc gggacaagcg ggcagcatgc tcaggcggt cgaggccta ctgcgccttg 180  
 gccgcgggct aacagtccgc tgcggccccg gggcgctct ctagggccag cgacggccccg 240  
 caccggctct tccgccccgg ggtctccct gctactccag cggcggggcc cccagcaatt 300  
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 ggatccccgc agaaatgata gacaccgcaa gaaacaaagc tcgagtgaat gcttgttaca 480  
 taatgattgg actcacaatt atcgctgct ttgctgtgat agtgtcagcc aaaagggctg 540  
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&lt;210&gt; 95

&lt;211&gt; 1780

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

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&lt;210&gt; 96

&lt;211&gt; 1794

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (457)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 96

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&lt;210&gt; 97

&lt;211&gt; 2065

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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 <213> Homo sapiens

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 <211> 615  
 <212> DNA  
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 <222> (117)  
 <223> n equals a,t,g, or c

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&lt;210&gt; 102

&lt;211&gt; 1416

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

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1416

<210> 103

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (287)

<223> n equals a,t,g, or c

<400> 103

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<211> 1259

<212> DNA

<213> Homo sapiens

<400> 104

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<210> 105

&lt;211&gt; 1804

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

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&lt;210&gt; 106

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 106

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&lt;210&gt; 107

&lt;211&gt; 821

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 107

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&lt;210&gt; 108

&lt;211&gt; 1576

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (252)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (804)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 108

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&lt;210&gt; 109

&lt;211&gt; 1779

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 109

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&lt;210&gt; 110

&lt;211&gt; 1365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 110

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&lt;210&gt; 111

&lt;211&gt; 1957

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 111

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tccatcaacc	tgagacagga	ctcagtatat	ggttcttggg	tatgccctac	caggtggaat	1860
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa			1957

&lt;210&gt; 112

&lt;211&gt; 1135

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

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tgtcaaggt	ggcggggctg	catgtgccgt	ggttgggctt	ggggctgtga	tcctggcccc	300
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&lt;210&gt; 113

&lt;211&gt; 1446

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

ggcacgagcg	gaagtgcaac	togaacttgg	tcggggcgcg	gatcccgaga	gggaaagtca	60
taacaaccgc	acgagggagt	tcgactggcg	aactggaagg	ccacgcctcc	tcccgcctgc	120
cccctcagcc	ctgtggctgg	ggcagagctc	agactgtctt	ctgaagattg	atgtctatct	180
ccttgagctc	tttaattttg	ttgccaattt	ggataaacat	ggcacaaatc	cagcagggag	240
gtccagatga	aaaagaaaag	actaccgcac	tgaaaagattt	attatctagg	atagatttgg	300
atgaactaat	gaaaaaagat	gaaccgcctc	ttgatttctt	gataccctgg	aagggttgaa	360
tatgctttta	atgaaaaggg	acagttaaga	cacataaaaa	ctggggaacc	atttgttttt	420
aactaccggg	aagattttaca	cagatggaac	cagaaaagat	acgaggctct	aggagagatc	480
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aagtagaaaa	gccgaagata	cacgtacagt	catcatctga	tagttcagat	gaaccagcag	840
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agaactatcg	taacccccaa	agagaaaaag	aaaggatgca	attgtatatc	agagaaaatg	960
gttctcctga	agaacatgca	atctatgttt	gggatcattt	catagctcag	gctgctgctg	1020

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ccccttaaat	ttatacataa	tcagcttctt	gtatggaccc	aaattggaga	aatgtaattc	1380
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aaaaaa						1446

&lt;210&gt; 114

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

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cacccacctc	tcactcttct	gggcccgaat	agccacctg	gcagtgtggg	cggcggctgc	300
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cttcctgtc	actacttgct	tggcacacag	caatagctgc	ctsaaccaw	tagcytaygt	720
cttaagcmga	att					733

&lt;210&gt; 115

&lt;211&gt; 1518

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1146)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 115

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aatgtgagga	aagaaaattg	tatcctgcat	ggctgaaaat	ggtcccctac	aaaaatatca	120
tggtggacaa	ctaactctgag	atagtggat	ctctggaaaag	cagtttagca	ctggtgagtt	180
tggactttca	tggcaggctg	ccttggttca	tatcttttgg	taatgatact	tatcctctgt	240
raggcccatt	tctttatttg	tggaaatgaa	gacaatagag	tgcttagata	taatttasca	300
acaatgtccg	tcacatagta	aacacgtaat	aaacggtagc	tcttattggt	attattatta	360
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ctggggacac	agagacttgt	gaactaaaag	acaagttacc	taccttccaa	cacaactgac	960



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aaaaaaaaaa	actcgtag					1518

&lt;210&gt; 116

&lt;211&gt; 1054

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

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ctctataata	gaaagtggca	gatttttagat	aaagggtttg	tgatttttaa	ggttgatatt	1020
aacaggtagt	atcataaaaa	aaaaaaaaaa	aaaa			1054

&lt;210&gt; 117

&lt;211&gt; 921

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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900  
 921

<210> 118  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 118  
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln  
   1                  5                  10                  15  
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg  
                   20                  25                  30  
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile  
           35                  40                  45  
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser  
   50                  55                  60  
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp  
   65                  70                  75                  80  
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr  
                   85                  90                  95  
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn  
           100                  105                  110  
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser  
   115                  120                  125  
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala  
   130                  135                  140  
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu  
  145                  150                  155                  160  
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys  
           165                  170                  175  
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr  
           180                  185                  190  
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His  
   195                  200                  205  
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val  
   210                  215                  220  
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile  
  225                  230                  235                  240  
 Gly Tyr Gln

<210> 119  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 119  
 Met Lys Arg Arg Glu Met Thr Gln Phe Leu Leu Ser Leu Val Ala Leu  
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 Asn Cys Cys Ser Ile Ser Leu Gly Arg Leu Thr Tyr Pro Gly Gly Phe  
                     20                    25                    30  
 His Leu Lys Leu Asp Pro Leu Glu Leu  
             35                    40

<210> 120  
 <211> 526  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (466)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 120  
 Met Ala Ala Leu Thr Ile Ala Thr Gly Thr Gly Asn Trp Phe Ser Ala  
     1                    5                    10                    15  
 Leu Ala Leu Gly Val Thr Leu Leu Lys Cys Leu Leu Ile Pro Thr Tyr  
                     20                    25                    30  
 His Ser Thr Asp Phe Glu Val His Arg Asn Trp Leu Ala Ile Thr His  
             35                    40                    45  
 Ser Leu Pro Ile Ser Gln Trp Tyr Tyr Glu Ala Thr Ser Glu Trp Thr  
     50                    55                    60  
 Leu Asp Tyr Pro Pro Phe Phe Ala Trp Phe Glu Tyr Ile Leu Ser His  
     65                    70                    75                    80  
 Val Ala Lys Tyr Phe Asp Gln Glu Met Leu Asn Val His Asn Leu Asn  
                     85                    90                    95  
 Tyr Ser Ser Ser Arg Thr Leu Leu Phe Gln Arg Phe Ser Val Ile Phe  
             100                    105                    110  
 Met Asp Val Leu Phe Val Tyr Ala Val Arg Glu Cys Cys Lys Cys Ile  
     115                    120                    125  
 Asp Gly Lys Lys Val Gly Lys Glu Leu Thr Glu Lys Pro Lys Phe Ile  
     130                    135                    140  
 Leu Ser Val Leu Leu Leu Trp Asn Phe Gly Leu Leu Ile Val Asp His  
     145                    150                    155                    160

Ile His Phe Gln Tyr Asn Gly Phe Leu Phe Gly Leu Met Leu Leu Ser  
 165 170 175  
 Ile Ala Arg Leu Phe Gln Lys Arg His Met Glu Gly Ala Phe Leu Phe  
 180 185 190  
 Ala Val Leu Leu His Phe Lys His Ile Tyr Leu Tyr Val Ala Pro Ala  
 195 200 205  
 Tyr Gly Val Tyr Leu Leu Arg Ser Tyr Cys Phe Thr Ala Asn Lys Pro  
 210 215 220  
 Asp Gly Ser Ile Arg Trp Lys Ser Phe Ser Phe Val Arg Val Ile Ser  
 225 230 235 240  
 Leu Gly Leu Val Val Phe Leu Val Ser Ala Leu Ser Leu Gly Pro Phe  
 245 250 255  
 Leu Ala Leu Asn Gln Leu Pro Gln Val Phe Ser Arg Leu Phe Pro Phe  
 260 265 270  
 Lys Arg Gly Leu Cys His Ala Tyr Trp Ala Pro Asn Phe Trp Ala Leu  
 275 280 285  
 Tyr Asn Ala Leu Asp Lys Val Leu Ser Val Ile Gly Leu Lys Leu Lys  
 290 295 300  
 Phe Leu Asp Pro Asn Asn Ile Pro Lys Ala Ser Met Thr Ser Gly Leu  
 305 310 315 320  
 Val Gln Gln Phe Gln His Thr Val Leu Pro Ser Val Thr Pro Leu Ala  
 325 330 335  
 Thr Leu Ile Cys Thr Leu Ile Ala Ile Leu Pro Ser Ile Phe Cys Leu  
 340 345 350  
 Trp Phe Lys Pro Gln Gly Pro Arg Gly Phe Leu Arg Cys Leu Thr Leu  
 355 360 365  
 Cys Ala Leu Ser Ser Phe Met Phe Gly Trp His Val His Glu Lys Ala  
 370 375 380  
 Ile Leu Leu Ala Ile Leu Pro Met Ser Leu Leu Ser Val Gly Lys Ala  
 385 390 395 400  
 Gly Asp Ala Ser Ile Phe Leu Ile Leu Thr Thr Thr Gly His Tyr Ser  
 405 410 415  
 Leu Phe Pro Leu Leu Phe Thr Ala Pro Glu Leu Pro Ile Lys Ile Leu  
 420 425 430  
 Leu Met Leu Leu Phe Thr Ile Tyr Ser Ile Ser Ser Leu Lys Thr Leu  
 435 440 445  
 Phe Arg Lys Glu Lys Pro Leu Phe Asn Trp Met Glu Thr Phe Tyr Leu  
 450 455 460  
 Leu Xaa Leu Gly Pro Leu Glu Val Cys Cys Glu Phe Val Phe Pro Phe

465		470		475		480									
Thr	Ser	Trp	Lys	Val	Lys	Tyr	Pro	Phe	Ile	Pro	Leu	Leu	Leu	Thr	Ser
			485						490					495	
Val	Tyr	Cys	Ala	Val	Gly	Ile	Thr	Tyr	Ala	Trp	Phe	Lys	Leu	Tyr	Val
			500					505					510		
Ser	Val	Leu	Ile	Asp	Ser	Ala	Ile	Gly	Lys	Thr	Lys	Lys	Gln		
		515					520					525			

<210> 121

<211> 354

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 121
Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys Arg Gly His
  1             5             10            15

Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg Gln Asn Thr
      20             25            30

Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr Pro Pro Lys
      35             40            45

Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro Cys Leu Glu
      50             55            60

Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln Thr Ser Thr

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65	70					75					80				
Glu Tyr Phe Leu	Glu Ala Cys Ser Arg	Glu Glu Ala Gly Cys Leu Gly													
	85	90											95		
Leu Xaa Arg Xaa	Pro Gly Leu Phe Met	Gln Gly Ser Xaa Gly Lys Val													
	100	105											110		
Gln Gln Leu His	Ser Leu Arg Asn Ser	Phe Xaa Leu Pro Pro His Ile													
	115	120											125		
Xaa Leu Xaa Arg	Ile Val Asp Lys Met	His Asp Ser Asn Thr Gly Ile													
	130	135											140		
Arg Ser Ser Pro	Asn Met Glu Gln Arg	Ser Thr Tyr Lys Lys Xaa Phe													
	145	150											155	160	
Leu Gly Ser Ser	Leu Val Asp Trp Xaa	Ile Xaa Xaa Ser Phe Xaa Gly													
	165	170												175	
Ser Arg Leu Glu	Ala Val Xaa Leu Ala	Ser Met Xaa Xaa Glu Glu Asn													
	180	185												190	
Phe Leu Arg Ser	Val Ala Val Arg Cys	Met Gly Gly Ile Arg Ser Gly													
	195	200												205	
Asp Leu Ala Glu	Gln Phe Leu Asp Asp	Ser Thr Ala Leu Tyr Thr Phe													
	210	215												220	
Xaa Glu Ser Tyr	Xaa Lys Xaa Ile Ser	Pro Lys Glu Glu Ile Ser Leu													
	225	230												235	
Ser Thr Val Glu	Leu Ser Gly Thr Val	Val Lys Gln Gly Tyr Leu Ala													
	245	250												255	
Lys Gln Gly His	Lys Arg Lys Asn Trp	Lys Val Arg Arg Phe Val Leu													
	260	265												270	
Arg Lys Asp Pro	Ala Phe Leu His Tyr	Tyr Asp Pro Ser Lys Glu Glu													
	275	280												285	
Asn Arg Pro Val	Gly Gly Phe Ser Leu	Arg Gly Ser Leu Val Ser Ala													
	290	295												300	
Leu Glu Asp Asn	Gly Val Pro Thr Gly	Val Lys Gly Asn Val Gln Gly													
	305	310												315	
Asn Leu Phe Lys	Val Ile Thr Lys Asp	Asp Thr His Tyr Tyr Ile Gln													
	325	330												335	
Ala Ser Ser Lys	Ala Glu Arg Ala Glu	Trp Ile Glu Ala Ile Lys Lys													
	340	345												350	
Leu Thr															

<211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Met Trp Lys Arg Val Cys Val Cys Val Phe Leu Tyr Ile Ala Trp Val  
           1                  5                  10                  15  
 Gln Leu Trp Met Cys Ala Lys Glu Cys Glu Cys Val Cys Val Cys Val  
                   20                  25                  30  
 Lys Gly Ser Val Leu Glu Pro Thr Ser Val Cys Cys Glu Ser Gly Lys  
           35                  40                  45  
 Arg Val Gly Glu Gly Arg Glu Met Leu Thr Leu Val Gly Ala Gly  
           50                  55                  60

<210> 123  
 <211> 309  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (262)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (308)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 123  
 Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser  
           1                  5                  10                  15  
 Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu  
                   20                  25                  30  
 Pro Lys Ser Arg Phe Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn  
           35                  40                  45



Gly Leu Leu Gln Leu Gly His Gly Leu Lys Asp Phe Val His Lys Thr  
 50 55 60  
 Lys Gly Gln Ile Asn Asp Ile Phe Gln Lys Leu Asn Ile Phe Asp Gln  
 65 70 75 80  
 Ser Phe Tyr Asp Leu Ser Leu Gln Thr Ser Glu Ile Lys Glu Glu Glu  
 85 90 95  
 Lys Glu Leu Arg Arg Thr Thr Tyr Lys Leu Gln Val Lys Asn Glu Glu  
 100 105 110  
 Val Lys Asn Met Ser Leu Glu Leu Asn Ser Lys Leu Glu Ser Leu Leu  
 115 120 125  
 Xaa Glu Lys Ile Leu Leu Gln Gln Lys Val Lys Tyr Leu Glu Glu Gln  
 130 135 140  
 Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His Pro Glu  
 145 150 155 160  
 Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser Ile Lys  
 165 170 175  
 Asp Xaa Leu Gln Thr Val Glu Asp Gln Tyr Xaa Gln Leu Asn Gln Gln  
 180 185 190  
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile  
 195 200 205  
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg  
 210 215 220  
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp  
 225 230 235 240  
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr  
 245 250 255  
 Ser Gly Met Tyr Ala Xaa Arg Pro Ser Asn Ser Gln Val Phe His Val  
 260 265 270  
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg  
 275 280 285  
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr  
 290 295 300  
 Gly Phe Gly Xaa Ala  
 305

&lt;210&gt; 124

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124

Met Ala Asn Ala Gly Leu Gln Leu Leu Gly Phe Ile Leu Ala Phe Leu  
1 5 10 15

Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile  
20 25 30

Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala Gln Ala Met Tyr Glu  
35 40 45

Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr Gly Gln Ile Gln Cys  
50 55 60

Lys Val Phe Asp Ser Leu Leu Asn Leu Ser Ser Thr Leu Gln Ala Thr  
65 70 75 80

Arg Ala Leu Met Val Val Gly Ile Leu Leu Gly Val Ile Ala Ile Phe  
85 90 95

Val Ala Xaa Val Gly Met Lys Cys Met Lys Cys Leu Glu Asp Asp Glu  
100 105 110

Val Gln Lys Met Arg Met Ala Val Ile Gly Gly Ala Ile Phe Leu Leu  
115 120 125

Ala Gly Leu Ala Ile Leu Val Ala Thr Ala Trp Tyr Gly Asn Arg Ile  
130 135 140

Val Gln Glu Phe Tyr Asp Pro Met Thr Pro Val Asn Ala Arg Tyr Glu  
145 150 155 160

Phe Gly Gln Ala Leu Phe Thr Gly Trp Ala Ala Ala Ser Leu Cys Leu  
165 170 175

Leu Gly Gly Ala Leu Leu Cys Cys Ser Cys Pro Arg Lys Thr Thr Ser  
180 185 190

Tyr Pro Thr Pro Arg Pro Tyr Pro Lys Pro Ala Pro Ser Ser Gly Lys  
195 200 205

Asp Tyr Val  
210

<210> 125

<211> 50

<212> PRT

<213> Homo sapiens

<400> 125

Met Ala Pro Leu Trp Thr Leu Arg Pro Val Leu Val Trp Thr Thr Pro  
1 5 10 15

Thr Ser Met Gly Glu Val Ser Pro Trp Leu Thr Ser Thr Val Met Ala

	20		25		30
Lys Trp Thr Ser Ser Met Ala Thr Gly Met Ala Pro Thr Ala Ser Ile					
	35		40		45
Cys Arg					
	50				
<210> 126					
<211> 262					
<212> PRT					
<213> Homo sapiens					
<400> 126					
Met Leu Phe Ser Ala Leu Leu Leu Glu Val Ile Trp Ile Leu Ala Ala					
1		5		10	15
Asp Gly Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His					
	20		25		30
Trp Pro Ala Ser Tyr Pro Glu Cys Gly Asn Asn Ala Gln Ser Pro Ile					
	35		40		45
Asp Ile Gln Thr Asp Ser Val Thr Phe Asp Pro Asp Leu Pro Ala Leu					
	50		55		60
Gln Pro His Gly Tyr Asp Gln Pro Gly Thr Glu Pro Leu Asp Leu His					
	65		70		75
Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu Tyr Leu					
		85		90	95
Gly Gly Leu Pro Arg Lys Tyr Val Ala Ala Gln Leu His Leu His Trp					
	100		105		110
Gly Gln Lys Gly Ser Pro Gly Gly Ser Glu His Gln Ile Asn Ser Glu					
	115		120		125
Ala Thr Phe Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr					
	130		135		140
Asp Ser Leu Ser Glu Ala Ala Glu Arg Pro Gln Gly Leu Ala Val Leu					
	145		150		155
Gly Ile Leu Ile Glu Leu Glu Lys Leu Gln Gly Thr Leu Phe Ser Thr					
		165		170	175
Glu Glu Glu Pro Ser Lys Leu Leu Val Gln Asn Tyr Arg Ala Leu Gln					
	180		185		190
Pro Leu Asn Gln Arg Met Val Phe Ala Ser Phe Ile Gln Ala Gly Ser					
	195		200		205
Ser Tyr Thr Thr Gly Glu Met Leu Ser Leu Gly Val Gly Ile Leu Val					
	210		215		220
Gly Cys Leu Cys Leu Leu Leu Ala Val Tyr Phe Ile Ala Arg Lys Ile					

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<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 127															
Met	His	Tyr	Tyr	Arg	Tyr	Ser	Asn	Ala	Lys	Val	Ser	Cys	Trp	Tyr	Lys
1				5					10					15	
Tyr	Leu	Leu	Phe	Ser	Tyr	Asn	Ile	Ile	Phe	Xaa	Leu	Ala	Gly	Val	Val
			20					25					30		
Phe	Leu	Gly	Val	Gly	Leu	Trp	Ala	Trp	Ser	Glu	Lys	Gly	Val	Leu	Ser
		35					40					45			
Asp	Leu	Thr	Lys	Val	Thr	Arg	Met	His	Gly	Ile	Asp	Pro	Val	Val	Leu
50						55					60				
Val	Leu	Met	Val	Gly	Val	Val	Met	Phe	Thr	Leu	Gly	Phe	Ala	Gly	Cys
65					70					75					80
Val	Gly	Ala	Leu	Arg	Glu	Asn	Ile	Cys	Leu	Leu	Asn	Phe	Phe	Cys	Gly
				85					90					95	
Thr	Ile	Val	Leu	Ile	Phe	Phe	Leu	Glu	Leu	Ala	Val	Ala	Val	Leu	Ala
			100					105					110		
Phe	Leu	Phe	Gln	Asp	Trp	Val	Arg	Asp	Arg	Phe	Arg	Glu	Phe	Phe	Glu
		115					120					125			
Ser	Asn	Ile	Lys	Ser	Tyr	Arg	Asp	Asp	Ile	Asp	Leu	Gln	Asn	Leu	Ile
	130					135					140				
Asp	Ser	Leu	Gln	Lys	Ala	Asn	Gln	Cys	Cys	Gly	Ala	Tyr	Gly	Pro	Glu
145					150					155					160
Asp	Trp	Asp	Leu	Asn	Val	Tyr	Phe	Asn	Cys	Ser	Gly	Ala	Ser	Tyr	Ser
				165					170					175	
Arg	Glu	Lys	Cys	Gly	Val	Pro	Phe	Ser	Cys	Cys	Val	Pro	Asp	Pro	Ala
			180					185					190		
Gln	Lys	Val	Val	Asn	Thr	Gln	Cys	Gly	Tyr	Asp	Val	Arg	Ile	Gln	Leu
		195					200					205			

Lys Ser Lys Trp Asp Glu Ser Ile Phe Thr Lys Gly Cys Ile Gln Ala  
 210 215 220

Leu Glu Ser Trp Leu Pro Arg Asn Ile Tyr Ile Val Ala Gly Val Phe  
 225 230 235 240

Ile Ala Ile Ser Leu Leu Gln Ile Phe Gly Ile Phe Leu Ala Arg Thr  
 245 250 255

Leu Ile Ser Asp Ile Glu Ala Val Lys Ala Gly His His Phe  
 260 265 270

<210> 128

<211> 91

<212> PRT

<213> Homo sapiens

<400> 128

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala  
 1 5 10 15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg  
 20 25 30

Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly  
 35 40 45

Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr  
 50 55 60

Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala  
 65 70 75 80

Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser  
 85 90

<210> 129

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 129

Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu  
 1 5 10 15

Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg  
 20 25 30

Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr  
 35 40 45

Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg  
     50                                    55                                    60  
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg  
     65                                    70                                    75                                    80  
 Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu  
                                     85                                    90                                    95  
 Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile  
                     100                                    105                                    110  
 Asn Asn Ala Phe Phe Leu Asn Xaa Gln Thr Leu Glu Phe Leu Lys Ile  
                     115                                    120                                    125  
 Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile  
     130                                    135                                    140  
 Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu  
     145                                    150                                    155                                    160  
 Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro  
                     165                                    170                                    175  
 Ser Glu Val Asp Asp Ala Glu Asp Lys Cys Glu Asn Met Ile Thr Ile  
                     180                                    185                                    190  
 Glu Asn Gly Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly His Ile  
                     195                                    200                                    205  
 Asn Asp Ala Phe Met Thr Glu Asp Glu Arg Leu Thr Pro Leu  
     210                                    215                                    220

<210> 130

<211> 760

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (267)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (438)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 130

Met Ile Pro Asn Gln His Asn Ala Gly Ala Gly Ser His Gln Pro Ala  
     1                                    5                                    10                                    15

Val Phe Arg Met Ala Val Leu Asp Thr Asp Leu Asp His Ile Leu Pro  
 20 25 30  
 Ser Ser Val Leu Pro Pro Phe Trp Ala Lys Leu Val Val Gly Ser Val  
 35 40 45  
 Ala Ile Val Cys Phe Ala Arg Ser Tyr Asp Gly Asp Phe Val Phe Asp  
 50 55 60  
 Asp Ser Glu Ala Ile Val Asn Asn Lys Asp Leu Gln Ala Glu Thr Pro  
 65 70 75 80  
 Leu Gly Asp Leu Trp His His Asp Phe Trp Gly Ser Arg Leu Ser Ser  
 85 90 95  
 Asn Thr Ser His Lys Ser Tyr Arg Pro Leu Thr Val Leu Thr Phe Arg  
 100 105 110  
 Ile Asn Tyr Tyr Leu Ser Gly Gly Phe His Pro Val Gly Phe His Val  
 115 120 125  
 Val Asn Ile Leu Leu His Ser Gly Ile Ser Val Leu Met Val Asp Val  
 130 135 140  
 Phe Ser Val Leu Phe Gly Gly Leu Gln Tyr Thr Ser Lys Gly Arg Arg  
 145 150 155 160  
 Leu His Leu Ala Pro Arg Ala Ser Leu Leu Ala Ala Leu Leu Phe Ala  
 165 170 175  
 Val His Pro Val His Thr Glu Cys Val Ala Gly Val Val Gly Arg Ala  
 180 185 190  
 Asp Leu Leu Cys Ala Leu Phe Phe Leu Leu Ser Phe Leu Gly Tyr Cys  
 195 200 205  
 Lys Ala Phe Arg Glu Ser Asn Lys Glu Gly Ala His Ser Ser Thr Phe  
 210 215 220  
 Trp Val Leu Leu Ser Ile Phe Leu Gly Ala Val Ala Met Leu Cys Lys  
 225 230 235 240  
 Glu Gln Gly Ile Thr Val Leu Gly Leu Asn Ala Val Phe Asp Ile Leu  
 245 250 255  
 Val Ile Gly Lys Phe Asn Val Leu Glu Ile Xaa Gln Lys Val Leu His  
 260 265 270  
 Lys Asp Lys Ser Leu Glu Asn Leu Gly Met Leu Arg Asn Gly Gly Leu  
 275 280 285  
 Leu Phe Arg Met Thr Leu Leu Thr Ser Gly Gly Ala Gly Met Leu Tyr  
 290 295 300  
 Val Arg Trp Arg Ile Met Gly Thr Gly Pro Xaa Ala Phe Thr Glu Val  
 305 310 315 320

Asp Asn Pro Ala Ser Phe Ala Asp Ser Met Leu Val Arg Ala Val Asn  
 325 330 335  
 Tyr Asn Tyr Tyr Tyr Ser Leu Asn Ala Trp Leu Leu Leu Cys Pro Trp  
 340 345 350  
 Trp Leu Cys Phe Asp Trp Ser Met Gly Cys Ile Pro Leu Ile Lys Ser  
 355 360 365  
 Ile Ser Asp Trp Arg Val Ile Ala Leu Ala Ala Leu Trp Phe Cys Leu  
 370 375 380  
 Ile Gly Leu Ile Cys Gln Ala Leu Cys Ser Glu Asp Gly His Lys Arg  
 385 390 395 400  
 Arg Ile Leu Thr Leu Gly Leu Gly Phe Leu Val Ile Pro Phe Leu Pro  
 405 410 415  
 Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Ala Glu Arg Val  
 420 425 430  
 Leu Tyr Leu Pro Ser Xaa Gly Tyr Cys Val Leu Leu Thr Phe Gly Phe  
 435 440 445  
 Gly Ala Leu Ser Lys His Thr Lys Lys Lys Lys Leu Ile Ala Ala Val  
 450 455 460  
 Val Leu Gly Ile Leu Phe Ile Asn Thr Leu Arg Cys Val Leu Arg Ser  
 465 470 475 480  
 Gly Glu Trp Arg Ser Glu Glu Gln Leu Phe Arg Ser Ala Leu Ser Val  
 485 490 495  
 Cys Pro Leu Asn Ala Lys Val His Tyr Asn Ile Gly Lys Asn Leu Ala  
 500 505 510  
 Asp Lys Gly Asn Gln Thr Ala Ala Ile Arg Tyr Tyr Arg Glu Ala Val  
 515 520 525  
 Arg Leu Asn Pro Lys Tyr Val His Ala Met Asn Asn Leu Gly Asn Ile  
 530 535 540  
 Leu Lys Glu Arg Asn Glu Leu Gln Glu Ala Glu Glu Leu Leu Ser Leu  
 545 550 555 560  
 Ala Val Gln Ile Gln Pro Asp Phe Ala Ala Ala Trp Met Asn Leu Gly  
 565 570 575  
 Ile Val Gln Asn Ser Leu Lys Arg Phe Glu Ala Ala Glu Gln Ser Tyr  
 580 585 590  
 Arg Thr Ala Ile Lys His Arg Arg Lys Tyr Pro Asp Cys Tyr Tyr Asn  
 595 600 605  
 Leu Gly Arg Leu Tyr Ala Asp Leu Asn Arg His Val Asp Ala Leu Asn  
 610 615 620  
 Ala Trp Arg Asn Ala Thr Val Leu Lys Pro Glu His Ser Leu Ala Trp



625                      630                      635                      640  
 Asn Asn Met Ile Ile Leu Leu Asp Asn Thr Gly Asn Leu Ala Gln Ala  
                                 645                      650                      655  
 Glu Ala Val Gly Arg Glu Ala Leu Glu Leu Ile Pro Asn Asp His Ser  
                                 660                      665                      670  
 Leu Met Phe Ser Leu Ala Asn Val Leu Gly Lys Ser Gln Lys Tyr Lys  
                                 675                      680                      685  
 Glu Ser Glu Ala Leu Phe Leu Lys Ala Ile Lys Ala Asn Pro Asn Ala  
                                 690                      695                      700  
 Ala Ser Tyr His Gly Asn Leu Ala Val Leu Tyr His Arg Trp Gly His  
 705                                  710                      715                      720  
 Leu Asp Leu Ala Lys Lys His Tyr Glu Ile Ser Leu Gln Leu Asp Pro  
                                 725                      730                      735  
 Thr Ala Ser Gly Thr Lys Glu Asn Tyr Gly Leu Leu Arg Arg Lys Leu  
                                 740                      745                      750  
 Glu Leu Met Gln Lys Lys Ala Val  
                                 755                      760  
  
 <210> 131  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 131  
 Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe  
   1                                  5                      10                      15  
 His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys  
                                 20                      25                      30  
 Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro  
                                 35                      40                      45  
 Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr  
                                 50                      55                      60  
 Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln  
   65                                  70                      75                      80  
 Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val  
                                 85                      90                      95  
 Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr  
                                 100                      105                      110  
 Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp  
                                 115                      120                      125  
 Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala

130 135 140  
 Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe  
 145 150 155 160  
 Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val  
 165 170 175  
 His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu  
 180 185 190  
 Gly Gly Cys Thr Asp Asp Thr Leu Leu  
 195 200

<210> 132  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala  
 1 5 10 15  
 Gln Gly Leu Tyr Phe His Ile Gly Glu Thr Glu Lys Arg Cys Phe Ile  
 20 25 30  
 Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly  
 35 40 45

<210> 133  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 133  
 Met Ala Leu Cys Ala Leu Thr Arg Ala Leu Xaa Ser Leu Asn Leu Ala  
 1 5 10 15  
 Pro Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln  
 20 25 30  
 Met Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu  
 35 40 45  
 Pro Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val  
 50 55 60  
 Ser Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg  
 65 70 75 80  
 Lys Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile

85										90					95				
Gly	Gly	Gly	His	Lys	Gln	Arg	Tyr	Arg	Met	Ile	Asp	Phe	Leu	Arg	Phe				
			100					105					110						
Arg	Pro	Glu	Glu	Thr	Lys	Ser	Gly	Pro	Phe	Glu	Glu	Lys	Val	Ile	Gln				
		115					120					125							
Val	Arg	Tyr	Asp	Pro	Cys	Arg	Ser	Ala	Asp	Ile	Ala	Leu	Val	Ala	Gly				
	130					135					140								
Gly	Ser	Arg	Lys	Arg	Trp	Ile	Ile	Ala	Thr	Glu	Asn	Met	Gln	Ala	Gly				
145					150					155					160				
Asp	Thr	Ile	Leu	Asn	Ser	Asn	His	Ile	Gly	Arg	Met	Ala	Val	Ala	Ala				
			165						170					175					
Arg	Glu	Gly	Asp	Ala	His	Pro	Leu	Gly	Ala	Leu	Pro	Val	Gly	Thr	Leu				
		180						185					190						
Ile	Asn	Asn	Val	Glu	Ser	Glu	Pro	Gly	Arg	Gly	Ala	Gln	Tyr	Ile	Arg				
	195						200					205							
Ala	Ala	Gly	Thr	Cys	Gly	Val	Leu	Leu	Arg	Lys	Val	Asn	Gly	Thr	Ala				
	210					215					220								
Ile	Ile	Gln	Leu	Pro	Ser	Lys	Arg	Gln	Met	Gln	Val	Leu	Glu	Thr	Cys				
225					230					235					240				
Val	Ala	Thr	Val	Gly	Arg	Val	Ser	Asn	Val	Asp	His	Asn	Lys	Arg	Val				
			245						250					255					
Ile	Gly	Lys	Ala	Gly	Arg	Asn	Arg	Trp	Leu	Gly	Lys	Arg	Pro	Asn	Ser				
		260						265					270						
Gly	Arg	Trp	His	Arg	Lys	Gly	Gly	Trp	Ala	Gly	Arg	Lys	Ile	Arg	Pro				
	275					280						285							
Leu	Pro	Pro	Met	Lys	Ser	Tyr	Val	Lys	Leu	Pro	Ser	Ala	Ser	Ala	Gln				
	290					295					300								
Ser																			
305																			

&lt;210&gt; 134

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

Met	Asn	Gln	Leu	Met	Phe	Gln	Asp	Leu	Leu	Cys	Cys	Leu	Cys	Leu	Phe
1				5					10					15	

Val	Ile	Gly	Leu	Ile	Ser	Leu	Leu	Arg	Lys	Thr	Tyr	Ser	Cys	Val	Asn
		20						25					30		

Leu	Cys	Lys	Val	Met	Leu	Pro	Val	Lys	Lys	Tyr	Ser	Thr	Val	Ser	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35	40	45
Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe		
50	55	60
Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser		
65	70	75
		80

Pro

&lt;210&gt; 135

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 135

Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu Ile Thr Val
1 5 10 15

Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys Lys Asp His
20 25 30

Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala
35 40 45

Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala
50 55 60

Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly
65 70 75 80

Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly
85 90 95

Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser
100 105 110

Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe
115 120 125

Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His
130 135 140

Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu
145 150 155 160

Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile  
 165 170 175

Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln  
 180 185 190

Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys  
 195 200 205

Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly  
 210 215 220

Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg  
 225 230 235 240

Ile Gln

<210> 136  
 <211> 285  
 <212> PRT  
 <213> Homo sapiens

<400> 136  
 Met Val Val Ala Gly Val Val Val Leu Ile Leu Ala Leu Val Leu Ala  
 1 5 10 15

Trp Leu Ser Thr Tyr Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly  
 20 25 30

Ala Ile Val Ser Ala Gly Asp Thr Ser Val Leu His Leu Gly His Val  
 35 40 45

Asp His Leu Val Ala Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro  
 50 55 60

His Pro Ser Glu Gly Asn Asp Glu Lys Ala Glu Glu Ala Gly Glu Gly  
 65 70 75 80

Arg Gly Asp Ser Thr Gly Glu Ala Gly Ala Gly Gly Gly Val Glu Pro  
 85 90 95

Ser Leu Glu His Leu Leu Asp Ile Gln Gly Leu Pro Lys Arg Gln Ala  
 100 105 110

Gly Ala Gly Ser Ser Ser Pro Glu Ala Pro Leu Arg Ser Glu Asp Ser  
 115 120 125

Thr Cys Leu Pro Pro Ser Pro Gly Leu Ile Thr Val Arg Leu Lys Phe  
 130 135 140

Leu Asn Asp Thr Glu Glu Leu Ala Val Ala Arg Pro Glu Asp Thr Val  
 145 150 155 160

Gly Ala Leu Lys Ser Lys Tyr Phe Pro Gly Gln Glu Ser Gln Met Lys  
 165 170 175

Leu Ile Tyr Gln Gly Arg Leu Leu Gln Asp Pro Ala Arg Thr Leu Arg  
                   180                                  185                                  190

Ser Leu Asn Ile Thr Asp Asn Cys Val Ile His Cys His Arg Ser Pro  
                   195                                  200                                  205

Pro Gly Ser Ala Val Pro Gly Pro Ser Ala Ser Leu Ala Pro Ser Ala  
                   210                                  215                                  220

Thr Glu Pro Pro Ser Leu Gly Val Asn Val Gly Ser Leu Met Val Pro  
                   225                                  230                                  235                                  240

Val Phe Val Val Leu Leu Gly Val Val Trp Tyr Phe Arg Ile Asn Tyr  
                                   245                                  250                                  255

Arg Gln Phe Phe Thr Ala Pro Ala Thr Val Ser Leu Val Gly Val Thr  
                                   260                                  265                                  270

Val Phe Phe Ser Phe Leu Val Phe Gly Met Tyr Gly Arg  
                   275                                  280                                  285

<210> 137

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 137

Met Asp Ala Met Ile Leu Leu Asn Val Leu Ala Leu Thr Arg Leu Ala  
       1                                  5                                  10                                  15

Lys Ala Ala Ala Thr Asn Phe Val Ala Gln Gly Arg Gly Thr Ile Ile  
                   20                                  25                                  30

Asn Ile Gly Ser Ile Val Ala Leu Ala Pro Lys Val Leu Asn Gly Val  
                   35                                  40                                  45

Tyr Gly Gly Thr Lys Ala Phe Val Gln Ala Phe Ser Glu Ser Leu Gln

50		55		60
His Glu Leu Ser Asp Lys Gly Val Val Val Gln Val Val Leu Pro Gly				
65		70		80
Ala Thr Ala Thr Glu Phe Trp Asp Ile Ala Gly Leu Pro Val Lys Gln				
	85		90	95
Pro Ala Gly Ser His Gly Asp Asp His Arg Lys Pro Gly Gly Arg Arg				
	100		105	110
Pro Xaa Arg Pro Cys Pro Xaa Xaa Xaa Val Thr Ile Pro Ser Leu Pro				
	115		120	125
Asp Ser Ala Asp Trp Asp Thr Thr Asn Ala Arg Gly Trp Pro Trp Val				
	130		135	140
Arg Thr Cys Arg Thr Val Asn Pro Pro Leu Val Met Gly				
145		150		155

&lt;210&gt; 138

&lt;211&gt; 308

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 138

Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
1 5 10 15

Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
20 25 30

Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
35 40 45

Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
50 55 60

His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
65 70 75 80

Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp
85 90 95

Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
100 105 110

Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser  
115 120 125

Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val  
130 135 140

Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
145 150 155 160

Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro  
180 185 190

Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
195 200 205

Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val  
210 215 220

Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn  
225 230 235 240

Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly  
245 250 255

Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys  
260 265 270

Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala  
275 280 285

Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro  
290 295 300

Asp Cys Asp Cys  
305

<210> 139

<211> 508

<212> PRT

<213> Homo sapiens

<400> 139

Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu  
1 5 10 15

Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro  
20 25 30

Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp  
35 40 45

Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser  
50 55 60



Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala  
 65 70 75 80  
 Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val  
 85 90 95  
 Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro  
 100 105 110  
 Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val  
 115 120 125  
 Cys Phe Tyr Gly His Leu Asp Val Gln Pro Ala Asp Arg Gly Asp Gly  
 130 135 140  
 Trp Leu Thr Asp Pro Tyr Val Leu Thr Glu Val Asp Gly Lys Leu Tyr  
 145 150 155 160  
 Gly Arg Gly Ala Thr Asp Asn Lys Gly Pro Val Leu Ala Trp Ile Asn  
 165 170 175  
 Ala Val Ser Ala Phe Arg Ala Leu Glu Gln Asp Leu Pro Val Asn Ile  
 180 185 190  
 Lys Phe Ile Ile Glu Gly Met Glu Glu Ala Gly Ser Val Ala Leu Glu  
 195 200 205  
 Glu Leu Val Glu Lys Glu Lys Asp Arg Phe Phe Ser Gly Val Asp Tyr  
 210 215 220  
 Ile Val Ile Ser Asp Asn Leu Trp Ile Ser Gln Arg Lys Pro Ala Ile  
 225 230 235 240  
 Thr Tyr Gly Thr Arg Gly Asn Ser Tyr Phe Met Val Glu Val Lys Cys  
 245 250 255  
 Arg Asp Gln Asp Phe His Ser Gly Thr Phe Gly Gly Ile Leu His Glu  
 260 265 270  
 Pro Met Ala Asp Leu Val Ala Leu Leu Gly Ser Leu Val Asp Ser Ser  
 275 280 285  
 Gly His Ile Leu Val Pro Gly Ile Tyr Asp Glu Val Val Pro Leu Thr  
 290 295 300  
 Glu Glu Glu Ile Asn Thr Tyr Lys Ala Ile His Leu Asp Leu Glu Glu  
 305 310 315 320  
 Tyr Arg Asn Ser Ser Arg Val Glu Lys Phe Leu Phe Asp Thr Lys Glu  
 325 330 335  
 Glu Ile Leu Met His Leu Trp Arg Tyr Pro Ser Leu Ser Ile His Gly  
 340 345 350  
 Ile Glu Gly Ala Phe Asp Glu Pro Gly Thr Lys Thr Val Ile Pro Gly  
 355 360 365  
 Arg Val Ile Gly Lys Phe Ser Ile Arg Leu Val Pro His Met Asn Val

370		375		380
Ser Ala Val Glu Lys Gln Val Thr Arg His Leu Glu Asp Val Phe Ser				
385		390		395 400
Lys Arg Asn Ser Ser Asn Lys Met Val Val Ser Met Thr Leu Gly Leu				
	405		410	415
His Pro Trp Ile Ala Asn Ile Asp Asp Thr Gln Tyr Leu Ala Ala Lys				
	420		425	430
Arg Ala Ile Arg Thr Val Phe Gly Thr Glu Pro Asp Met Ile Arg Asp				
	435		440	445
Gly Ser Thr Ile Pro Ile Ala Lys Met Phe Gln Glu Ile Val His Lys				
	450		455	460
Ser Val Val Leu Ile Pro Leu Gly Ala Val Asp Asp Gly Glu His Ser				
465		470		475 480
Gln Asn Glu Lys Ile Asn Arg Trp Asn Tyr Ile Glu Gly Thr Lys Leu				
	485		490	495
Phe Ala Ala Phe Phe Leu Glu Met Ala Gln Leu His				
	500		505	

&lt;210&gt; 140

&lt;211&gt; 506

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (423)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (425)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 140

Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly
1 5 10 15

Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val
20 25 30

Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile  
 35 40 45  
 Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg  
 50 55 60  
 Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser  
 65 70 75 80  
 Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly  
 85 90 95  
 Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa  
 100 105 110  
 Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu  
 115 120 125  
 Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr  
 130 135 140  
 Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr  
 145 150 155 160  
 Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly  
 165 170 175  
 Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu  
 180 185 190  
 Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg  
 195 200 205  
 Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala  
 210 215 220  
 Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala  
 225 230 235 240  
 Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser  
 245 250 255  
 Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His  
 260 265 270  
 Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly  
 275 280 285  
 Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp  
 290 295 300  
 Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro  
 305 310 315 320  
 Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro  
 325 330 335

Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His  
 340 345 350

Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly  
 355 360 365

Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser  
 370 375 380

Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro  
 385 390 395 400

Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg  
 405 410 415

Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln  
 420 425 430

Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly  
 435 440 445

Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp Gln Glu Pro  
 450 455 460

Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro  
 465 470 475 480

His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Pro  
 485 490 495

Asp Met Ala Leu Pro Leu Leu Gln Ser Trp  
 500 505

<210> 141

<211> 48

<212> PRT

<213> Homo sapiens

<400> 141

Met Arg Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Ala Met Val Arg  
 1 5 10 15

Ser Glu Ala Ser Ala Asn Leu Gly Gly Val Pro Ser Lys Arg Leu Lys  
 20 25 30

Met Gln Tyr Ala Thr Gly Pro Leu Leu Lys Phe Gln Ile Cys Val Ser  
 35 40 45

<210> 142

<211> 130

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 142  
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly  
     1                    5                    10                    15  
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile  
                     20                    25                    30  
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp  
           35                    40                    45  
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa  
     50                    55                    60  
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu  
     65                    70                    75                    80  
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp  
                     85                    90                    95  
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro  
           100                    105                    110  
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro  
     115                    120                    125  
 Thr Ser  
     130

<210> 143  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 143  
 Met Ala Phe Leu Gln Ser Ala Ser Tyr Val Met Val Ile Leu Cys Ala  
     1                    5                    10                    15

Cys Val Ile Ile Ile Gly Ile Leu Xaa Tyr Ala Phe Xaa Phe Glu Thr  
                   20                  25                  30

Leu Ser Pro Lys Lys Arg Arg Asp Ile Glu Ile  
           35                  40

<210> 144

<211> 91

<212> PRT

<213> Homo sapiens

<400> 144

Met Gln Leu Ile Glu Ser Arg Phe His Phe Arg Cys Val Trp Ile Leu  
   1                  5                  10                  15

His Leu Leu Ala Leu Phe Ser Thr Trp Pro Pro Lys Asp Pro Glu Gly  
           20                  25                  30

Ser Pro Pro Ser Ala Thr Ser Ser Pro Leu Thr Pro His Leu Ser Leu  
       35                  40                  45

Thr Leu Pro Phe Lys Gln Ala Pro Val Ser Asn Val Ser Ser Ala Ile  
       50                  55                  60

His Val Met Leu Asp Lys Ser Val Ser Leu Ser Glu Ile Gln Phe Ser  
       65                  70                  75                  80

His Met Pro Asn Gly Lys Arg Ala Ser Thr Leu  
                   85                  90

<210> 145

<211> 266

<212> PRT

<213> Homo sapiens

<400> 145

Met Glu Leu Leu Thr Ala Leu Leu Arg Leu Phe Leu Ser Arg Pro Ala  
   1                  5                  10                  15

Glu Cys Gln Asp Met Leu Gly Arg Leu Leu Tyr Tyr Cys Ile Glu Glu  
           20                  25                  30

Glu Lys Asp Met Ala Val Arg Asp Arg Gly Leu Phe Tyr Tyr Arg Leu  
       35                  40                  45

Leu Leu Val Gly Ile Asp Glu Val Lys Arg Ile Leu Cys Ser Pro Lys  
       50                  55                  60

Ser Asp Pro Thr Leu Gly Leu Leu Glu Asp Pro Ala Glu Arg Pro Val  
       65                  70                  75                  80

Asn Ser Trp Ala Ser Asp Phe Asn Thr Leu Val Pro Val Tyr Gly Lys  
           85                  90                  95

Ala His Trp Ala Thr Ile Ser Lys Cys Gln Gly Ala Glu Arg Cys Asp  
       100                  105                  110

Pro Glu Leu Pro Lys Thr Ser Ser Phe Ala Ala Ser Gly Pro Leu Ile  
 115 120 125  
 Pro Glu Glu Asn Lys Glu Arg Val Gln Glu Leu Pro Asp Ser Gly Ala  
 130 135 140  
 Leu Met Leu Val Pro Asn Arg Gln Leu Thr Ala Asp Tyr Phe Glu Lys  
 145 150 155 160  
 Thr Trp Leu Ser Leu Lys Val Ala His Gln Gln Val Leu Pro Trp Arg  
 165 170 175  
 Gly Glu Phe His Pro Asp Thr Leu Gln Met Ala Leu Gln Val Val Asn  
 180 185 190  
 Ile Gln Thr Ile Ala Met Ser Arg Ala Gly Ser Arg Pro Trp Lys Ala  
 195 200 205  
 Tyr Leu Ser Ala Gln Asp Asp Thr Gly Cys Leu Phe Leu Thr Glu Leu  
 210 215 220  
 Leu Leu Glu Pro Gly Asn Ser Glu Met Gln Ile Ser Val Lys Gln Asn  
 225 230 235 240  
 Glu Ala Arg Thr Glu Thr Leu Asn Ser Phe Ile Ser Val Leu Glu Thr  
 245 250 255  
 Val Ile Gly Thr Ile Glu Glu Ile Lys Ser  
 260 265

<210> 146  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu  
 1 5 10 15  
 Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro  
 20 25 30  
 Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly  
 35 40 45  
 Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn  
 50 55 60  
 Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr  
 65 70 75 80  
 Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser  
 85 90 95  
 Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu  
 100 105 110

Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe  
 115 120 125  
 Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr  
 130 135 140  
 Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys  
 145 150 155 160  
 Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly Gly Ser Gly  
 165 170 175  
 His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys  
 180 185 190  
 Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys  
 195 200 205  
 Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu Glu Ser  
 210 215 220  
 Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His Leu Lys Cys  
 225 230 235 240  
 Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp  
 245 250 255  
 Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg Asp Cys Ala  
 260 265 270  
 Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg Cys Lys Lys  
 275 280 285  
 Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu Asp Val Asp  
 290 295 300  
 Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln Cys Glu Asn  
 305 310 315 320  
 Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met  
 325 330 335  
 Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Gly Ala Phe Pro Ile Leu  
 340 345 350  
 Thr Asp Leu Thr Pro Glu Thr Thr Arg Arg Trp Lys Leu Gly Ser His  
 355 360 365  
 Pro His Ser Thr Tyr Val Lys Met Lys Met Gln Arg Asp Glu Ala Thr  
 370 375 380  
 Phe Pro Gly Leu Tyr Gly Lys Gln Val Ala Lys Leu Gly Ser Gln Ser  
 385 390 395 400  
 Arg Gln Ser Asp Arg Gly Thr Arg Leu Ile His Val Ile Asn Ala Leu  
 405 410 415



Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Lys Gly  
                   420                                  425                                  430

Gly Arg

<210> 147

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 147

Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu  
       1                                  5                                  10                                  15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln  
                   20                                  25                                  30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val  
                   35                                  40                                  45

Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln  
                   50                                  55                                  60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys  
       65                                  70                                  75                                  80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro  
                   85                                  90                                  95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg  
                   100                                  105                                  110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val  
                   115                                  120                                  125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr  
                   130                                  135                                  140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu  
       145                                  150                                  155                                  160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser  
                   165                                  170                                  175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro  
                   180                                  185                                  190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser  
                   195                                  200                                  205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys

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<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 149
Met Tyr Lys Ala Phe Leu Leu Ala Leu Thr Thr Val Phe Tyr Leu Gly
  1             5             10             15

Ile Leu Asn Ser His Phe His Gly Cys Val Leu Cys Asn Thr Asn Val
      20             25             30

Phe Lys Trp Tyr Ser His Pro Val Gly Gln Leu Ser Lys Arg Cys Leu
      35             40             45

```

Asp Ala Ser Lys Leu Ala Tyr Xaa Lys Phe Thr Ser Ile Lys Tyr Gln  
 50 55 60

Cys Asn Tyr Ser Thr  
 65

<210> 150

<211> 61

<212> PRT

<213> Homo sapiens

<400> 150

Met His Glu Cys Gln Ser Phe Pro Leu Cys Val His Leu Arg Leu Val  
 1 5 10 15

Leu Leu Leu Ser Phe Lys Thr Gln Val His Glu Phe His Glu Val Phe  
 20 25 30

Pro His Tyr Ser His Phe Asn Phe Pro Ser Leu Asn Asn Tyr Asp Ile  
 35 40 45

Asn Leu Leu Leu Asn His Glu Leu Trp His Thr Thr Pro  
 50 55 60

<210> 151

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met Asn Leu Val Gly Phe Cys Leu Phe Ile Cys Leu Leu Leu Met Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Phe Ser Lys Phe Ser Ile Val Glu Lys Tyr Ala  
 20 25 30

Ala Pro Glu Glu Met Ile Gly His Ser Pro Ala Trp Cys Trp Thr Leu  
 35 40 45

Ser Ser Leu Ala Gln Pro Ser Pro Asp Leu Ser Val Tyr Leu Thr Leu  
 50 55 60

Val Phe Tyr Ile Leu Gln Arg Gln Xaa Gln Asn Asn Pro Asn Leu Thr  
 65 70 75 80

Gln Ile Pro Gly Ile His Leu Ile  
 85

<210> 152

<211> 78  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 152  
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe Leu Gln Leu Ser Leu  
           1                          5                          10                          15  
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly  
                           20                          25                          30  
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly His Xaa Val His  
                           35                          40                          45  
 Cys Leu Val Ile Thr Asn Glu Pro Leu Val Ser Xaa Lys Lys Ile Gly  
           50                          55                          60  
 Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe  
           65                          70                          75

<210> 153  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 153  
 Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu  
           1                          5                          10                          15  
 Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr  
                           20                          25                          30  
 Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp  
           35                          40                          45  
 Gln Ser Cys Met Asn Cys Val Ile Leu Ser Val Leu Ser Phe Phe Phe  
           50                          55                          60  
 Leu Ile Arg Trp Ile Ser Lys Ile Val Ala Val Gln Lys Leu Glu Ser  
           65                          70                          75                          80  
 Ser Ser Arg Arg Lys Pro Ile Leu Phe Leu Ile Ile Ser Cys Glu Ile

109

85

90

95

Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met Ser Ala Glu Cys Cys  
100 105 110

Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr  
115 120

<210> 154

<211> 68

<212> PRT

<213> Homo sapiens

<400> 154

Met Tyr Leu Gly Ser Arg Ile Val Lys Ala Leu Phe Phe Leu Leu Phe  
1 5 10 15

Cys Ile Phe His Ile Trp Tyr Asn Glu His Val Leu Arg Thr Val Leu  
20 25 30

Asp Leu Arg Lys Tyr Ala Asn Thr Val Gln Ile Val Leu Ala Ser Pro  
35 40 45

Met Pro Ser Ser Ser Ile Ala Asn Val Ser Thr Leu Val Trp Cys Val  
50 55 60

Cys Cys Asn Gly  
65

<210> 155

<211> 43

<212> PRT

<213> Homo sapiens

<400> 155

Met Lys Cys Thr Glu Lys Cys Val Val Val Phe Phe Thr Phe Val Leu  
1 5 10 15

Tyr Met Tyr Val Tyr Trp Val Leu Trp Ala Val Glu Ala Lys Leu Thr  
20 25 30

Ser His Val Ala His Glu Met Leu Val Ser Cys  
35 40

<210> 156

<211> 63

<212> PRT

<213> Homo sapiens

<400> 156

Met Phe Ile Leu Leu Ile Val Phe Val Phe Ser Lys Ser Lys Gln Val  
1 5 10 15

Leu Ser Ile Cys Leu Lys Ile Phe Lys Val Glu Ile Asn Ser Ile Ser  
20 25 30

Phe Cys Lys Asn Lys Lys Tyr Lys Asp Leu Pro Tyr Ala Phe Ala Ser  
                   35                                  40                                  45

Glu Lys Thr Gly Arg Thr Tyr Ser Asn Val Asn Asn Asp Tyr Leu  
           50                                  55                                  60

<210> 157

<211> 61

<212> PRT

<213> Homo sapiens

<400> 157

Met Ile Val Tyr Trp Met Ile Trp Ala Leu Arg Ser Pro Leu Thr Thr  
   1                                  5                                  10                                  15

Ala Gln Asn Ile His Ser Ser Thr Ala Leu Thr Glu Phe Ala Lys Cys  
                   20                                  25                                  30

Ile Lys Glu Val Thr Trp Arg Val Arg Ser Tyr Glu Thr Ile Cys Arg  
           35                                  40                                  45

Lys Trp Gly Lys Lys Gly His Met Ala Gln Leu Lys Leu  
           50                                  55                                  60

<210> 158

<211> 82

<212> PRT

<213> Homo sapiens

<400> 158

Met Arg Phe Phe Leu Glu Cys Val Leu Leu Ile Cys Phe Arg Ala Met  
   1                                  5                                  10                                  15

Ser Ala Ile Tyr Thr His Thr Ser Ile Gly Asn Ala Gln Lys Leu Phe  
                   20                                  25                                  30

Thr Asp Gly Ser Ala Phe Arg Arg Val Arg Glu Pro Leu Pro Lys Glu  
           35                                  40                                  45

Gly Lys Ser Trp Pro Gln Leu Glu Gln Ala Cys Leu Gly Pro Cys Ser  
           50                                  55                                  60

Val Phe Gln Leu Gln Thr Ala Cys Ile Ile Pro Ser Cys Tyr Ser Ser  
   65                                  70                                  75                                  80

Phe Thr

<210> 159

<211> 46

<212> PRT

<213> Homo sapiens

<400> 159

Met Cys Cys Ala Ser His Pro Cys Gln Arg Glu Gly Trp Leu Cys Val  
 1 5 10 15

Ile Phe Thr Val Phe Leu Lys Val Thr Val Cys Val Phe Thr Phe Val  
 20 25 30

Gln Ile Thr Gly Ser Lys Ala Ala Asn Ser Ala Ile Thr Cys  
 35 40 45

<210> 160

<211> 187

<212> PRT

<213> Homo sapiens

<400> 160

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro  
 1 5 10 15

Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu  
 20 25 30

Cys His Asp Leu Pro Val Thr Gln Leu Leu Pro Gly Trp Leu Gly Glu  
 35 40 45

Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser  
 50 55 60

Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser  
 65 70 75 80

Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser  
 85 90 95

Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu  
 100 105 110

Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu  
 115 120 125

Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu  
 130 135 140

His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys  
 145 150 155 160

Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Tyr Arg Thr  
 165 170 175

Leu Gln Trp Leu Ser Trp Thr Gly His Leu Pro  
 180 185

<210> 161

<211> 113

<212> PRT

<213> Homo sapiens

&lt;400&gt; 161

Met Ile Phe Ser Met Pro Gln Gln Gly Ser Ser Trp Phe Leu Ser Ala  
 1 5 10 15

Phe Leu Ser Trp Pro Leu Ala Leu Ala Pro Ala Leu Thr Pro Thr Pro  
 20 25 30

Ala Pro Ala Arg Ala Pro Gly Ala Pro Arg Ala Ala Gly Ala Pro Gly  
 35 40 45

Arg Val Ala Ala Gly Arg Gly Thr Cys Ala Gly Ala Leu Ala Pro Gly  
 50 55 60

Gln Glu Ala Trp Ser Ala Val Trp Glu Pro Gly Leu Phe Ile Trp Val  
 65 70 75 80

Glu His Pro Leu Gly Cys Gln Gly His Gly Leu Asp Arg Phe Pro Leu  
 85 90 95

Pro Thr Ala Leu Pro Leu Gln Gly Gly His Ala Ala Cys Cys Pro Gln  
 100 105 110

Leu

&lt;210&gt; 162

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

Met Gly Ile Gln Thr Ser Pro Val Leu Leu Ala Ser Leu Gly Val Gly  
 1 5 10 15

Leu Val Thr Leu Leu Gly Leu Ala Val Gly Ser Tyr Leu Val Arg Arg  
 20 25 30

Ser Arg Arg Pro Gln Val Thr Leu Leu Asp Pro Asn Glu Lys Tyr Leu  
 35 40 45

Leu Arg Leu Leu Asp Lys Thr Thr Val Ser His His Thr Leu Gly Leu  
 50 55 60

Pro Val Gly Lys His Ile Tyr Leu Ser Thr Arg Ile Asp Gly Ser Leu  
 65 70 75 80

Val Ile Arg Pro Tyr Thr Pro Val Thr Ser Asp Glu Asp Gln Gly Tyr  
 85 90 95

Val Asp Leu Val Ile Lys Val Tyr Leu Lys Gly Val His Pro Lys Phe  
 100 105 110

Pro Glu Gly Gly Lys Met Ser Gln Tyr Leu Asp Ser Leu Lys Val Gly  
 115 120 125

Asp Val Val Glu Phe Arg Gly Pro Ser Gly Leu Leu Thr Tyr Thr Gly  
 130 135 140



Lys Gly His Phe Asn Ile Gln Pro Asn Lys Lys Ser Pro Pro Glu Pro  
 145 150 155 160  
 Arg Val Ala Lys Lys Leu Gly Met Ile Ala Gly Gly Thr Gly Ile Thr  
 165 170 175  
 Pro Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro  
 180 185 190  
 Thr Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile  
 195 200 205  
 Leu Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe  
 210 215 220  
 Lys Leu Trp Phe Thr Leu Asp His Pro Pro Lys Asp Trp Ala Tyr Ser  
 225 230 235 240  
 Lys Gly Phe Val Thr Ala Asp Met Ile Arg Glu His Leu Pro Ala Pro  
 245 250 255  
 Gly Asp Asp Val Leu Val Leu Leu Cys Gly Pro Pro Pro Met Val Gln  
 260 265 270  
 Leu Ala Cys His Pro Asn Leu Asp Lys Leu Gly Tyr Ser Gln Lys Met  
 275 280 285  
 Arg Phe Thr Tyr  
 290

<210> 163  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 163  
 Met Val Met Val Phe Phe Leu Thr Phe Ser Gly Ser His Gly Cys Val  
 1 5 10 15  
 Pro Thr Ser Gln Pro Trp Lys Asp Ala Glu Asp Gln Val Gly Cys Val  
 20 25 30  
 His Ala Val Ala Trp Val Asn Ser Ala Leu Tyr Thr Val Leu Cys Pro  
 35 40 45  
 Phe Leu Gly Lys Pro Lys Cys Ser Phe Ser Phe Asp Arg Asn Glu Ser  
 50 55 60  
 Glu Asp Leu Asn Lys Gln Glu Val Lys Cys Arg Ala Val Pro Val Ser  
 65 70 75 80  
 Val Ser Ser Ser Met Leu  
 85

<210> 164

<211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 164  
 Met Leu Ala Thr Met Val Val Gln Ile Leu Arg Leu Arg Pro His Thr  
   1                  5                  10                  15  
 Gln Lys Trp Ser His Val Leu Thr Leu Leu Gly Leu Ser Leu Val Leu  
           20                  25                  30  
 Gly Leu Pro Trp Ala Leu Ile Phe Phe Ser Phe Ala Ser Gly Thr Phe  
           35                  40                  45  
 Gln Leu Val Val Leu Tyr Leu Phe Ser Ile Ile Thr Ser Phe Gln Gly  
           50                  55                  60  
 Phe Leu Ile Phe Ile Trp Tyr Trp Ser Met Arg Leu Gln Ala Arg Gly  
   65                  70                  75                  80  
 Gly Pro Ser Pro Leu Lys Ser Asn Ser Asp Ser Ala Arg Leu Pro Ile  
                   85                  90                  95  
 Ser Ser Gly Ser Thr Ser Ser Ser Arg Ile  
           100                  105

<210> 165  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Ala Trp Arg Val Trp Cys Leu Trp Gly Ile Pro Pro Leu Phe Cys  
   1                  5                  10                  15  
 Ser Pro Gly Thr Leu Ser Cys Val Cys Val Ser Phe Leu Ser Pro Gly  
           20                  25                  30  
 Asn Gly Met Ala Ser Glu His His Pro Arg Ser Ile Phe Pro Leu Gln  
           35                  40                  45  
 Asn Asp Val Ser Ser His Val Cys Phe Cys  
           50                  55

<210> 166  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 166  
 Met Arg Ser Asp Cys Val Leu Ile Trp Gln Leu Val Gly Val Leu Leu  
   1                  5                  10                  15  
 Ala Ser Gly Leu Ser Gly Asp Arg Ala Pro Leu Ile Val Leu Thr Ala  
           20                  25                  30

Cys Asp Lys Ala Trp Ala Thr Val  
35 40

```
<210> 167
<211> 65
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

```

```
<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 167
Met Trp Ala Cys Trp Gly Met Leu Gly Cys Ile Pro Leu Phe Val Pro
  1             5             10             15
```

Trp Val Pro Val Leu Gly Lys His Phe Ser Gly Cys Xaa Tyr Leu Cys  
20 25 30

Gly Arg Xaa Pro Cys Trp Ile Ala Phe Ile Cys Val Arg Thr Pro Cys  
35 40 45

Gly Pro Thr Thr Ala Pro Thr Ala Thr Leu Lys Trp Ser Pro Xaa Xaa  
50 55 60

Thr  
65

```
<210> 168
<211> 46
<212> PRT
<213> Homo sapiens
```

```
<400> 168
Met Arg Tyr Trp Thr Asp Met Arg Arg Asn Tyr Arg Val Thr Tyr Gln
 1           5           10          15
```

Val Val Leu Leu Phe Leu Cys Phe Ser Leu Leu Thr Glu Cys Lys Thr  
20 25 30

Phe Glu Pro Arg Ser Glu Arg Ser Leu Phe Ser Tyr Pro Leu  
                   35                                  40                                  45

<210> 169  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 169  
 Met Phe Ala Gly Leu Phe Phe Leu Phe Phe Val Arg Phe Gly Ile Gly  
   1                                  5                                  10                                  15  
 Arg Gln Leu Leu Ile Lys Phe Pro Trp Phe Phe Ser Phe Gly Tyr Phe  
                                   20                                  25                                  30  
 Ser Lys Gln Gly Pro Thr Gln Lys Gln Ile Asp Ala Ala Ser Phe Thr  
                                   35                                  40                                  45  
 Leu Thr Phe Phe Gly Gln Gly Tyr Ser Gln Gly Thr Gly Thr Asp Lys  
                                   50                                  55                                  60  
 Asn Lys Pro Asn Ile Lys Ile Cys Thr Gln Val Lys Gly Pro Glu Ala  
   65                                  70                                  75                                  80  
 Gly Tyr Val Ala Thr Pro Ile Ala Met Val Gln Ala Ala Met Thr Leu  
                                   85                                  90                                  95  
 Leu Ser Asp Ala Ser His Leu Pro Lys Ala Gly Gly Val Phe Thr Pro  
                                   100                                  105                                  110  
 Gly Ala Ala Phe Ser Lys Thr Lys Leu Ile Asp Arg Leu Asn Lys His  
                                   115                                  120                                  125  
 Gly Ile Glu Phe Ser Val Ile Ser Ser Ser Glu Val  
                                   130                                  135                                  140

<210> 170  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 170  
 Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu  
   1                                  5                                  10                                  15  
 Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr  
                                   20                                  25                                  30  
 Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro  
                                   35                                  40                                  45  
 Ala Val Ser Arg Ala  
                                   50

<210> 171

<211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 171

```

Met Cys Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu
 1              5              10              15

Val Gly Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr
      20              25              30

Leu Asn Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln
      35              40              45

Ile Met Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe
      50              55              60

Pro Pro Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val
      65              70              75              80

Ala Glu Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro
      85              90              95

Ser Tyr Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala
      100              105              110

Ala Ser Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn
      115              120              125

Ser Ser Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro
      130              135              140

Pro Arg Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu
      145              150              155              160

Ser Ser Glu Pro Ser Pro Pro
      165
  
```

<210> 172  
 <211> 325  
 <212> PRT  
 <213> Homo sapiens

<400> 172

```

Met Ser Ile Ser Leu Ser Ser Leu Ile Leu Leu Pro Ile Trp Ile Asn
 1              5              10              15

Met Ala Gln Ile Gln Gln Gly Gly Pro Asp Glu Lys Glu Lys Thr Thr
      20              25              30

Ala Leu Lys Asp Leu Leu Ser Arg Ile Asp Leu Asp Glu Leu Met Lys
      35              40              45

Lys Asp Glu Pro Pro Leu Asp Phe Pro Asp Thr Leu Glu Gly Phe Glu
      50              55              60

Tyr Ala Phe Asn Glu Lys Gly Gln Leu Arg His Ile Lys Thr Gly Glu
  
```

65		70		75		80
Pro Phe Val Phe Asn Tyr Arg Glu Asp Leu His Arg Trp Asn Gln Lys						
		85		90		95
Arg Tyr Glu Ala Leu Gly Glu Ile Ile Thr Lys Tyr Val Tyr Glu Leu						
		100		105		110
Leu Glu Lys Asp Cys Asn Leu Lys Lys Val Ser Ile Pro Val Asp Ala						
		115		120		125
Thr Glu Ser Glu Pro Lys Ser Phe Ile Phe Met Ser Glu Asp Ala Leu						
		130		135		140
Thr Asn Pro Gln Lys Leu Met Val Leu Ile His Gly Ser Gly Val Val						
		145		150		155
Arg Ala Gly Gln Trp Ala Arg Arg Leu Ile Ile Asn Glu Asp Leu Asp						
		165		170		175
Ser Gly Thr Gln Ile Pro Phe Ile Lys Arg Ala Val Ala Glu Gly Tyr						
		180		185		190
Gly Val Ile Val Leu Asn Pro Asn Glu Asn Tyr Ile Glu Val Glu Lys						
		195		200		205
Pro Lys Ile His Val Gln Ser Ser Ser Asp Ser Ser Asp Glu Pro Ala						
		210		215		220
Glu Lys Arg Glu Arg Lys Asp Lys Val Ser Lys Glu Thr Lys Lys Arg						
		225		230		235
Arg Asp Phe Tyr Glu Lys Tyr Arg Asn Pro Gln Arg Glu Lys Glu Met						
		245		250		255
Met Gln Leu Tyr Ile Arg Glu Asn Gly Ser Pro Glu Glu His Ala Ile						
		260		265		270
Tyr Val Trp Asp His Phe Ile Ala Gln Ala Ala Ala Glu Asn Val Phe						
		275		280		285
Phe Val Ala His Ser Tyr Gly Gly Leu Ala Phe Val Glu Leu Gln Leu						
		290		295		300
Met Ile Lys Gln Ala Asn Ser Asp Ala Gly Lys Cys Phe Arg Leu Ala						
		305		310		315
Met Trp Lys Asn His						
		325				

&lt;210&gt; 173

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg

1	5	10	15
Leu Leu Lys	Ala Gln Ile Leu Ser Tyr	Pro Val Pro Arg Phe	Glu Thr
	20	25	30
His Ser Leu	Ile Ser Arg Cys Ser Gln Val	Pro Pro Thr	Phe Leu Trp
	35	40	45
Asp Ile Lys	Lys Gly Val Arg Gly Gln Arg	Glu Pro Ser	Gly Pro Leu
	50	55	60
Leu Pro Tyr	Thr Leu His Cys Pro Phe Ser	Pro His Gln Asn	Ala Gln
	65	70	75
Arg Arg Cys	Asp Asp Ala Thr Glu Asp Tyr	Ala Thr Trp Ser	Asn Arg
	85	90	95
Ser Gly Gln	His Asp Gln Leu Ser Arg Gly	Cys Leu Leu Pro	Phe Leu
	100	105	110

Leu

<210> 174  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 174
Met Gly Arg Leu Gly Leu Cys Leu Leu Arg Ser Leu Trp Val Pro Gln
1 5 10 15
Arg Arg Ala Thr Thr Leu Gly Trp Thr Leu Ala Leu Arg Val Leu Pro
20 25 30
Thr Ala Arg Ala Xaa Arg Xaa Leu Pro Val Ala Ala Asp Thr Ala Arg
35 40 45
Arg Ala Cys Gly Ala His Thr Arg Ile Arg Val Leu Gly
50 55 60

<210> 175  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 175  
 Met Asp Ile Asn Phe Cys Leu Arg Gly Arg His Gly Val Leu Phe Cys  
   1                  5                  10                  15  
 Phe Val Leu Phe Cys Phe Cys His Leu Leu Thr Val Leu Ser Thr His  
           20                  25                  30  
 Arg Ala Phe Tyr Tyr Leu Ser Ala Xaa  
           35                  40  
  
 <210> 176  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 176  
 Met Ile Lys Leu Gln Lys Val Ser Glu Val Ile Lys Val Leu Lys Met  
   1                  5                  10                  15  
 Leu Leu Tyr Pro Leu Val Leu Leu Leu Ser Leu Lys Leu Asp Thr Lys  
           20                  25                  30  
 Ala Thr Ile Phe Ala Val Leu Glu Asp Val  
           35                  40  
  
 <210> 177  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 177  
 Met Tyr Phe Phe Thr Phe Tyr Phe Ser Ile Ser Ser Phe Met Phe Phe  
   1                  5                  10                  15  
 Leu Leu Val Ile Val Lys Ala Thr Asn Gly Pro Arg Tyr Val Val Gly  
           20                  25                  30  
 Cys Arg Arg Gln Val Ile Leu Tyr Ile Cys Ile Val Pro Asp Asp  
           35                  40                  45  
  
 <210> 178  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 178  
 Met Ser Gly Phe Lys Glu Phe Asp Phe Val Val Pro Trp Trp Ser Ile  
   1                  5                  10                  15  
 Ser Phe Leu Leu Ser Phe Leu Leu Leu Leu Ser Phe Trp Ser Leu





225

<210> 180  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 180  
 Met Phe Arg Ser Ser Ile Ser Leu Met Val Phe Ser Leu Ile Leu Leu  
           1                  5                  10                  15  
 Leu Thr Thr Glu Arg Arg Ile Leu Ala Cys Pro Pro Ile Ile Leu Asn  
                   20                  25                  30  
 Ser Ser Ile Phe Leu Ser Asp Leu Ser Val Leu Pro  
                   35                  40

<210> 181  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 181  
 Met Asn Pro Leu Ser Phe Leu Phe Cys Phe Ile Ile Cys Arg Leu Leu  
           1                  5                  10                  15  
 Ala Glu Asn Ala Ile Asn Ile Glu Ile Leu Thr Gly Thr Tyr Glu Asn  
                   20                  25                  30  
 Phe Pro Thr Lys Ala Tyr Tyr Phe Arg Gln Arg Ser Arg Lys  
                   35                  40                  45

<210> 182  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 182  
 Met Ala Ser Leu Leu Arg Thr Cys Cys Val Pro Tyr Ile Val Leu Ser  
           1                  5                  10                  15  
 Ile Tyr Leu Asp Tyr Leu Ile Lys Ser Ser Gln Ser Leu Tyr Leu Thr  
                   20                  25                  30  
 Asp Gly Glu Ile Lys Ala His Gly Thr  
                   35                  40

<210> 183  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Met Leu Gln Asp Leu Leu Ser Ala Leu Trp Phe Cys His Pro Cys Cys

1                      5                      10                      15  
 Leu Cys Cys Gly Leu Cys Trp Leu Gly Val Asp Ala Gly Cys Ser Gln  
                     20                      25                      30

Gly Gly Ser Gly Cys Pro Gln Gly Lys Ile Ser Asn Asn Gly Ile  
                     35                      40                      45

<210> 184  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Met Lys Phe Ala Pro Val Tyr Met Tyr Leu Ser Phe Ile Cys Leu Cys  
   1                      5                      10                      15  
 Leu Phe Tyr Cys Asn Ser Ile Asp Thr His His Cys Phe Val Ser Asp  
                     20                      25                      30  
 Tyr Leu Ala Phe Glu Ser Ser Met Arg Glu Ala Phe Thr Glu Leu Leu  
                     35                      40                      45  
 Ile Leu Ile Lys Gly Glu Ser Asn Val Leu Lys Lys Met Gln Asn His  
                     50                      55                      60  
 His Leu Cys Gln Ser Tyr  
   65                      70

<210> 185  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 185  
 Met Gly Leu Lys Leu Pro Ile Phe Leu Trp Phe Leu Tyr Phe Phe Ile  
   1                      5                      10                      15  
 Pro Leu Ser Ser Cys Tyr Leu Leu Leu Leu Pro His Leu Pro Ser Gly  
                     20                      25                      30  
 Ser Trp Asp Ser Met Leu Ser Phe Pro  
                     35                      40

<210> 186  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 186

Met Ala Gly Cys Leu Gly Ser Tyr Leu Leu Val Met Ile Leu Ile Leu  
 1 5 10 15  
 Cys Xaa Ala His Phe Phe Ile Cys Gly Asn Glu Asp Asn Arg Val Leu  
 20 25 30  
 Arg Tyr Asn Leu Glu Gln Cys Pro Ser His Ser Lys His Val Ile Asn  
 35 40 45  
 Gly Ser Ser Tyr Cys Tyr Tyr Tyr Tyr Tyr Tyr Tyr Leu Glu Asp Arg  
 50 55 60  
 Gly Ser Val Leu Phe Ile Ile Pro Ser Pro Ala Leu Ser Thr Val Pro  
 65 70 75 80  
 Gly Thr Ile Gln Thr Cys Ile Trp Met Asn Asp Lys  
 85 90

<210> 187  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 Met Pro Ala Gly Val Pro Met Ser Thr Tyr Leu Lys Met Phe Ala Ala  
 1 5 10 15  
 Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr  
 20 25 30  
 Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu  
 35 40 45  
 Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val  
 50 55 60  
 Ser Gln Gln Glu Glu Leu Lys  
 65 70

<210> 188  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 188  
 Met Ala Gly Phe Ala Ser Tyr Pro Trp Ser Asp Phe Pro Trp Cys Trp

1                      5                      10                      15  
 Val Val Cys Phe Ser Phe Xaa Phe Phe Phe Leu Arg Gln Ser Glu Ser  
                     20                      25                      30  
 Leu Ser Gln Lys Lys Arg Gln Val Ala Asp Glu Leu Xaa Phe Gly Gln  
                     35                      40                      45  
 Ser Lys Arg Asp Ser Asp Gly Gly Trp Met Leu Arg Ser Ser Ala Gly  
                     50                      55                      60  
 Asn Ser  
                     65

<210> 189  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 189  
 Met Gln Pro Ser Tyr Pro Leu Ser Trp Ser Gly Gly Val Xaa Leu Pro  
                     1                      5                      10                      15  
 Cys Leu Ala Ser Xaa Leu Thr Leu Leu Phe Leu Leu Gln Pro Leu Met  
                     20                      25                      30  
 Leu Pro Leu Gly Gly Ser Gln Thr Gln Leu Gly Asn His Ser Val Val  
                     35                      40                      45  
 Arg Leu Leu Leu Pro Val Gln Arg Leu Gly Phe Ala Glu Val Pro Pro  
                     50                      55                      60  
 Leu Glu Val Ala Gln Ser  
                     65                      70

<210> 190  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met Ile Pro Leu Arg Arg Gly Met Val Gly Gly Leu Leu Leu Leu  
                     1                      5                      10                      15  
 Ala Thr Ala Asn Lys Leu Leu Ala Ala Ser Phe Arg Asp Leu Met Asp  
                     20                      25                      30

Val Leu Thr Cys Pro Arg Pro Arg  
           35                          40

<210> 191  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 191  
 Met Gln His Leu Leu His Ser Leu Cys Leu Ser Cys Ser Thr Met  
   1                  5                  10                  15  
 Ala Arg Asn Val Pro Ala Ser Pro Ser Pro Ser Ala Val Ile Val Ser  
                   20                  25                  30  
 Phe Leu Arg Xaa Pro Gln Pro Cys Phe Leu Tyr Ser Leu Gln Asn Cys  
                   35                  40                  45  
 Glu Ser Ile Lys Pro Leu Phe Phe Ile Asn Ser Pro Val Ser Ser Ser  
   50                  55                  60  
 Ser Leu  
   65

<210> 192  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Met Leu Pro Ser Trp Trp Ala Leu Gly Trp Met Thr Leu Lys Ile Leu  
   1                  5                  10                  15  
 Gln Met Trp Val Gln Ala Cys Thr His Thr Met Glu Tyr Gly His Ser  
                   20                  25                  30  
 Tyr Thr Gly Gly Val Glu Ser Gly Ser Ala Ala Trp His Leu Thr Glu  
                   35                  40                  45  
 Val Gly Pro Lys Arg Thr His Asp Tyr Ala Glu Asn Trp Ile Gly Ser  
   50                  55                  60  
 Leu Ser  
   65

<210> 193  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 193

Met His Phe Ser Val Ala His Ser Ile Trp Gly Ile Leu Ile Leu Leu  
 1 5 10 15

Ser Leu Tyr Glu Gly Val Ile Ser Trp Val Phe Asn Phe Gln Met Phe  
 20 25 30

Thr Lys Leu Leu Leu Cys Ala Lys His Tyr Ser His Cys Phe Glu Ser  
 35 40 45

&lt;210&gt; 194

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 194

Met Ser Leu Ile Leu Leu Gly Ser Pro Ile Ile Pro Leu Trp Ser Tyr  
 1 5 10 15

Thr Ser Ala Thr Gln Ala Ala Ala Leu Val Thr Ser His Val Trp Lys  
 20 25 30

Pro Ser Leu Glu Ala His Gln Ile Asn Ile Ser Pro Glu Pro Ser Ile  
 35 40 45

His Tyr Asp Arg Trp His Thr Gln Ser Asn Cys Ser Leu Ile Asn Ser  
 50 55 60

Leu Gln  
 65

&lt;210&gt; 195

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 195

Met Lys Gln Thr Tyr Trp Gln Thr His Ile Leu Leu Val Leu Thr Leu  
 1 5 10 15

Tyr Phe Ile Val Leu Ala Tyr Ser Pro Phe Leu Arg Phe Leu Leu Arg  
 20 25 30

Asn Ile Gly Thr His Pro Leu Leu Cys Ala Glu Gly Ile Thr Ser Phe  
 35 40 45

Phe Leu Ser Tyr Lys Asn Met Leu Tyr  
 50 55

&lt;210&gt; 196

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 196

Met Gly Pro Asn Phe Val Val Leu Cys Leu Asn Leu Leu Gln Asp Thr  
 1 5 10 15

Leu Ala Tyr Ala Thr Ala Leu Leu Asn Glu Lys Glu Gln Ser Gly Ser  
 20 25 30

Ser Asn Gly Ser Glu Ser Ser Pro Ala Asn Glu Asn Gly Asp Arg His  
 35 40 45

Leu Gln Gln Val  
 50

&lt;210&gt; 197

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 197

Met Ile Val Ile Ala Val Ser Leu Ser Leu Phe Cys Asp Val Val Ser  
 1 5 10 15

Ser Glu Cys Met Ser Cys Phe Thr Pro Lys Phe Ala Asp Ile Val Ala  
 20 25 30

Asn Ala Tyr Gln Asn Glu Ser Tyr Ile Phe Ile  
 35 40

&lt;210&gt; 198

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

Met Leu Leu Pro Val Asn Thr Leu Leu Tyr Ile Leu Leu Thr Pro Leu  
 1 5 10 15

Cys Phe Phe Tyr Gly Thr Ser Arg Pro Pro Tyr Leu Glu Leu Val Thr  
 20 25 30

Leu Leu Lys Lys Lys Lys Gln Ser Val Gly Phe Ser Val Cys Ile Leu  
 35 40 45

Glu Ala Gly Arg  
 50

&lt;210&gt; 199

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 199



Met Ile Ile Val Leu Phe Ser Leu Ser Phe Leu Pro Leu Leu Pro Ser  
 1 5 10 15

Leu Leu Leu Ser Ser Tyr Leu Cys Leu Phe Phe Phe Pro Ser Gln Ser  
 20 25 30

Pro Ser Ser Phe Phe Phe His Leu  
 35 40

<210> 200

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200

Met Thr Glu Gly His Val Phe Cys Phe Ala Leu Cys Cys Val Leu Val  
 1 5 10 15

Phe Leu Ser Met Thr Leu Leu Val Xaa Ser Leu Glu Lys Thr Asn Ala  
 20 25 30

Gly Gly Val Ile Ala Trp Gly Cys Ile Ser Val Ser Val Gln Thr Gln  
 35 40 45

Thr Phe Ser Ser Pro Thr Ser Tyr Gln Thr Leu Phe Ile Ala Cys Lys  
 50 55 60

Leu Trp Asn Pro Arg Lys Leu  
 65 70

<210> 201

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 201

Met Ile Gly Leu Thr Ile Ile Ala Cys Phe Ala Val Ile Val Ser Ala  
 1 5 10 15

Lys Arg Ala Val Glu Arg His Glu Ser Leu Thr Ser Trp Asn Leu Ala  
 20 25 30

Lys Lys Ala Lys Xaa Arg Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys  
 35 40 45

Ala Asn Asp Ile Leu Ser Asp Lys Val Phe Thr

50

55

<210> 202  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 202  
 Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp Leu Gly Thr  
   1                  5                  10                  15  
 Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr Val Ser Asp  
                   20                  25                  30  
 Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp Pro Gly Glu  
                   35                  40                  45  
 His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His Ser Leu Gly  
                   50                  55                  60  
 Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly Val Gly Ile  
   65                  70                  75                  80

<210> 203  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Met Ile Ser Gly Val Leu Ile Phe Asn Leu Ile Ala Ser Ser Trp Val  
   1                  5                  10                  15  
 Leu Cys Phe Pro Leu Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile  
                   20                  25                  30  
 Phe Phe Ala Ser Phe Phe His Ala Val Cys Val His Val Ser Cys Thr  
                   35                  40                  45  
 Ser Trp Gln Pro Leu Val Leu Phe Ile Lys Trp Trp Val Val Gly Cys  
   50                  55                  60  
 Ser Pro Ala Val Ser Leu  
   65                  70

<210> 204  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Met Leu His Met Phe Leu Leu Leu Leu Tyr Phe Phe Lys Asn Ser Lys  
   1                  5                  10                  15

Ser Leu Phe Met Cys His Trp Ile Asn Leu Ser Asp Asn Val Ser His  
                   20                  25                  30

Lys Asn Leu Leu Asp Arg Leu Phe Phe Ser Cys Thr Leu Asn Gly Gly  
                   35                  40                  45

Val Glu Val Ser Gly Glu Gln Trp Ile Thr Lys Ser Lys Leu Trp Lys  
                   50                  55                  60

Ile Val Lys Arg Met Glu Lys Leu Asn Thr Arg Tyr Gln Lys  
                   65                  70                  75

<210> 205

<211> 115

<212> PRT

<213> Homo sapiens

<400> 205

Met Cys Met Ser Val Gly Ala His Ile Cys Val Cys Val Cys Met Cys  
                   1                  5                  10                  15

Val Leu His Val Cys Gly Glu Val Ser Ser Val Arg Ala Cys Asp Ser  
                   20                  25                  30

Trp Asp Leu His Ser Cys Val Leu Pro Gln Arg Pro Gln Pro Gly Gln  
                   35                  40                  45

Ala Leu Thr Phe Cys Ala Pro Cys Ile Glu Pro Val Cys Cys Gly Cys  
                   50                  55                  60

Leu Trp Pro Pro Met Gly Asn Ser Gly Glu Leu Ala Gly Gly Cys Ala  
                   65                  70                  75                  80

Gln Ser Pro Gly Cys Cys Tyr Cys His Ser Ala Gln Leu Gly Gln Ala  
                   85                  90                  95

Val Ala Pro Glu Gly Val Arg Arg Glu Leu Trp Glu His Leu Tyr Ser  
                   100                  105                  110

Val Leu Lys  
                   115

<210> 206

<211> 50

<212> PRT

<213> Homo sapiens

<400> 206

Met Pro Gly Cys Trp Val Leu Glu Leu Val Asp His Trp Leu Ala Ser  
                   1                  5                  10                  15

Leu Trp Leu Val Val Ala Val Thr Glu Cys Ala Ala Arg Pro Glu Trp  
                   20                  25                  30

Leu Phe Trp Leu Cys Pro Pro Ser Cys Ser Met Pro Gly Gly Gly Gly

35                                      40                                      45  
 Asp Thr  
     50  
  
 <210> 207  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 207  
 Met Lys Phe Tyr Ala Val Leu Leu Ser Ile Cys Leu Leu Leu Ser Cys  
     1                                      5                                      10                                      15  
 Trp Cys Ala Cys His Val Arg Asp Cys Asn Leu Ile Cys Leu Phe Ser  
                     20                                      25                                      30  
 Thr Val Lys Ala Ile Thr Arg Glu Leu Leu Gln Leu Pro Ser Tyr Val  
                     35                                      40                                      45  
 Lys Arg Phe Phe Phe Asn Ser Leu Arg  
                     50                                      55  
  
 <210> 208  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 208  
 Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn  
     1                                      5                                      10                                      15  
 Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu  
                     20                                      25                                      30  
 Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu  
                     35                                      40                                      45  
 Arg Val Arg Ser Gln Val Asp Gln  
                     50                                      55  
  
 <210> 209  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 209  
 Met Leu Leu Thr Cys Ile Leu Leu His Leu Trp Ile Val Val Asp Ser  
     1                                      5                                      10                                      15  
 Val Ile Tyr Met Lys Pro Thr Ser Arg Asp Gly Cys Leu Leu Ser Ala  
                     20                                      25                                      30  
 Leu Gln Met Ala Arg Ser Leu Ile Ile Gln Leu Asn His Ser Ser Ser  
                     35                                      40                                      45

Asn

<210> 210  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu  
           1                  5                  10                  15  
 Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu  
                   20                  25                  30  
 Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys  
                   35                  40

<210> 211  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 211  
 Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala  
           1                  5                  10                  15  
 Val Xaa Pro Ala Pro Ser Thr Ala Xaa Val Gln Asp Lys Cys Pro Val  
                   20                  25                  30  
 Asn Thr Trp Glu Ala Met Gln Ala Cys Val His Gly  
                   35                  40

<210> 212  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 212

Met Ala Phe Thr Phe Ala Ala Phe Cys Tyr Met Leu Ser Leu Val Leu  
 1 5 10 15  
 Cys Ala Ala Leu Ile Phe Phe Ala Ile Trp His Ile Ile Ala Phe Asp  
 20 25 30  
 Glu Leu Arg Thr Asp Phe Lys Ser Pro Ile Asp Gln Cys Asn Pro Val  
 35 40 45  
 His Ala Arg Glu Arg Leu Arg Asn Ile Glu Arg Ile Cys Phe Leu Leu  
 50 55 60  
 Arg Lys Leu Val Leu Pro Glu Tyr Ser Ile His Ser Leu Phe Cys Ile  
 65 70 75 80  
 Met Phe Leu Cys Ala Gln Glu Trp Leu Thr Leu Gly Leu Asn Val Pro  
 85 90 95  
 Leu Leu Phe Tyr His Phe Trp Arg Tyr Phe His Cys Pro Ala Asp Ser  
 100 105 110  
 Ser Glu Leu Ala Tyr Asp Pro Pro Val Val Met Asn Ala Asp Thr Leu  
 115 120 125  
 Ser Tyr Cys Gln Lys Glu Ala Xaa Cys Lys Leu Ala Phe Tyr Leu Leu  
 130 135 140  
 Ser Phe Phe Tyr Tyr Leu Tyr Cys Met Ile Tyr Thr Leu Val Ser Ser  
 145 150 155 160

<210> 213  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<400> 213  
 Met Tyr Arg Glu Arg Leu Arg Thr Leu Leu Val Ile Ala Val Val Met  
 1 5 10 15  
 Ser Leu Leu Asn Ala Leu Ser Thr Ser Gly Gly Ser Ile Ser Trp Asn  
 20 25 30  
 Asp Phe Val His Glu Met Leu Ala Lys Gly Glu Val Gln Arg Val Gln  
 35 40 45  
 Val Val Pro Glu Ser Asp Val Val Glu Val Tyr Leu His Pro Gly Ala  
 50 55 60  
 Val Val Phe Gly Arg Pro Arg Leu Ala Leu Met Tyr Arg Met Gln Val  
 65 70 75 80  
 Ala Asn Ile Asp Lys Phe Glu Glu Lys Leu Arg Ala Ala Glu Asp Glu  
 85 90 95

Leu Asn Ile Glu Ala Lys Asp Arg Ile Pro Val Ser Tyr Lys Arg Thr  
                   100                  105                  110  
 Gly Phe Phe Gly Lys Cys Pro Val Leu Cys Gly Asp Asp Gly Ser Gly  
                   115                  120                  125  
 Pro Gly His Pro Val Val Cys Phe Pro Ser Gly Arg Asp Asp Trp Arg  
                   130                  135                  140  
 His Arg Arg Arg Trp Thr Ser Arg Ser Arg Leu Leu Cys Trp Lys Ala  
                   145                  150                  155                  160  
 Leu Met Gly Ser Val Gly Ala Asp His Thr Arg Glu Leu Arg Lys Pro  
                   165                  170                  175  
 Ser Gly Ser His Arg Pro Pro Phe Asn Val Val Ile Pro Trp Trp Trp  
                   180                  185                  190  
 Lys Gln Asp Asp Gly Pro  
                   195

<210> 214  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser  
   1                  5                  10                  15  
 Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln  
                   20                  25                  30  
 Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser  
                   35                  40                  45  
 Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys  
                   50                  55

<210> 215  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 215  
 Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile  
   1                  5                  10                  15  
 Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala  
                   20                  25                  30

Leu Cys Ser Glu Asp Gly His Lys Arg Arg Ile Leu Thr Leu Gly Leu  
 35 40 45

Gly Phe Leu Val Ile Pro Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg  
 50 55 60

Val Gly Phe Val Val Ala Xaa Cys Ser Ser Thr Ser Pro Ala Leu Gly  
 65 70 75 80

Thr Val Cys Cys

<210> 216

<211> 81

<212> PRT

<213> Homo sapiens

<400> 216

Met Val Val Ala Gly Val Val Val Leu Ile Leu Ala Leu Val Leu Ala  
 1 5 10 15

Trp Leu Ser Thr Tyr Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly  
 20 25 30

Ala Ile Val Ser Ala Gly Asp Thr Ser Val Leu His Leu Gly His Val  
 35 40 45

Asp His Leu Val Ala Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro  
 50 55 60

His Pro Ser Glu Asp Lys Gln Val Gln Ala Ala Val Gln Arg Pro  
 65 70 75 80

Pro

<210> 217

<211> 90

<212> PRT

<213> Homo sapiens

<400> 217

Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu  
 1 5 10 15

Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr  
 20 25 30

Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp  
 35 40 45

Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu  
 50 55 60

Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser  
 65 70 75 80



Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe  
85 90

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<210> 218
<211> 335
<212> PRT
<213> Homo sapiens
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<400> 218  
Met Lys Lys Glu Leu Pro Val Asp Ser Cys Leu Pro Arg Ser Leu Glu  
1 5 10 15

Leu His Pro Gln Lys Met Asp Pro Lys Arg Gln His Ile Gln Leu Leu  
20 25 30

Ser Ser Leu Thr Glu Cys Leu Thr Val Asp Pro Leu Ser Ala Ser Val  
35 40 45

Trp Arg Gln Leu Tyr Pro Lys His Leu Ser Gln Ser Ser Leu Leu Leu  
50 55 60

Glu His Leu Leu Ser Ser Trp Glu Gln Ile Pro Lys Lys Val Gln Lys  
65 70 75 80

Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys Leu Thr Asn Gln Glu Leu  
85 90 95

Leu Arg Lys Gly Ser Ser Asn Asn Gln Asp Val Val Thr Cys Asp Met  
100 105 110

Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro Trp  
115 120 125

Thr Arg Leu Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu Cys  
130 135 140

His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly Arg  
145 150 155 160

Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys Ala  
165 170 175

Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu Thr  
180 185 190

Leu	Pro	Leu	Trp	Gly	Ser	His	Leu	Leu	Thr	Val	Val	Arg	Pro	Ser	Leu
		195					200					205			

Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser Ala  
210 215 220

His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser Leu  
225 230 235 240

Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu Leu  
245 250 255

Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu Leu  
260 265 270

Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu His  
275 280 285

Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys Thr  
290 295 300

Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp Ile  
305 310 315 320

Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln  
325 330 335

<210> 219

<211> 229

<212> PRT

<213> Homo sapiens

<400> 219

Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala  
1 5 10 15

Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile  
20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln  
35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg Met Cys  
50 55 60

Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu Val Gly  
65 70 75 80

Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr Leu Asn  
85 90 95

Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln Ile Met  
100 105 110

Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe Pro Pro  
115 120 125

Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val Ala Glu  
130 135 140

Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro Ser Tyr  
145 150 155 160

Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala Ala Ser  
165 170 175

Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn Ser Ser  
180 185 190

Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro Pro Arg  
 195 200 205

Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu Ser Ser  
 210 215 220

Glu Pro Ser Pro Pro  
 225

<210> 220  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Ser Ile Ser Leu Ser Ser Leu Ile Leu Leu Pro Ile Trp Ile Asn  
 1 5 10 15

Met Ala Gln Ile Gln Gln Gly Gly Pro Asp Glu Lys Glu Lys Thr Thr  
 20 25 30

Ala Leu Lys Asp Leu Leu Ser Arg Ile Asp Leu Asp Glu Leu Met Lys  
 35 40 45

Lys Asp Glu Pro Pro Leu Asp Phe Leu Ile Pro Trp Lys Val  
 50 55 60

<210> 221  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (163)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 221  
 Met Ala Ala Gly Pro Gly Thr His Leu Ser Leu Phe Trp Ala Arg Ile  
 1 5 10 15

Ala Thr Leu Ala Val Trp Ala Ala Ala Ala Leu Val Thr Val Pro Thr  
 20 25 30

Ala Val Phe Gly Val Glu Gly Glu Val Cys Gly Val Arg Leu Cys Leu  
 35 40 45

Leu Arg Phe Pro Ser Arg Tyr Trp Leu Gly Ala Tyr Gln Leu Gln Arg  
 50 55 60

Val Val Leu Ala Phe Met Val Pro Leu Gly Val Ile Thr Thr Ser Tyr  
 65 70 75 80

Leu Leu Leu Leu Ala Phe Leu Gln Arg Arg Gln Arg Arg Arg Gln Asp  
 85 90 95

Ser Arg Val Val Ala Arg Ser Val Arg Ile Leu Val Ala Ser Phe Phe  
                   100                  105                  110

Leu Cys Trp Phe Pro Asn His Val Val Thr Leu Trp Gly Val Leu Val  
           115                  120                  125

Lys Phe Asp Leu Val Pro Trp Asn Ser Thr Phe Tyr Thr Ile Gln Thr  
       130                  135                  140

Tyr Val Phe Pro Val Thr Thr Cys Leu Ala His Ser Asn Ser Cys Leu  
       145                  150                  155                  160

Asn Pro Xaa Ala Tyr Val Leu Ser Arg Ile  
                   165                  170

<210> 222

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 222

Met Ala Gly Cys Leu Gly Ser Tyr Leu Leu Val Met Ile Leu Ile Leu  
       1                  5                  10                  15

Cys Xaa Ala His Phe Phe Ile Cys Gly Asn Glu Asp Asn Arg Val Leu  
                   20                  25                  30

Arg Tyr Asn Leu Xaa Thr Met Ser Val Thr  
                   35                  40

<210> 223

<211> 56

<212> PRT

<213> Homo sapiens

<400> 223

Met Cys Ile Ser Gly Cys Leu Phe His Cys Ser Ile Cys Leu Phe Phe  
       1                  5                  10                  15

Met Leu Val Pro Tyr Cys Phe Asp Tyr Cys Leu Val Met Tyr Phe Glu  
                   20                  25                  30

Ile Lys Thr Cys Gly Tyr Leu Leu Cys Ser Pro Cys Gln Asp Tyr  
                   35                  40                  45

Ser Arg Ser Phe Val Ala Ser Ser  
50 55

<210> 224  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 224  
Met Tyr Arg Glu Arg Leu Arg Thr Leu Leu Val Ile Ala Val Val Met  
1 5 10 15  
Ser Leu Leu Asn Ala Leu Ser Thr Ser Gly Gly Ser Ile Ser Trp Asn  
20 25 30  
Asp Phe Val His Glu Met Leu Ala Lys Gly Glu Val Gln Arg Val Gln  
35 40 45  
Val Val Pro Glu Ser Asp Val Val Glu Val Tyr Leu His Pro Gly Ala  
50 55 60  
Val Val Phe Gly Arg Pro Arg Leu Ala Leu Met Tyr Arg Met Gln Leu  
65 70 75 80  
Gln Ile Leu Thr Ser Leu Lys Arg Ser Phe Glu Gln Leu Lys Met Ser  
85 90 95

<210> 225  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 225  
Trp Ala Gly Thr Gln Glu Pro Thr Gly Leu Pro Ser Thr Leu Ser Arg  
1 5 10 15  
Ser Glu Ser Trp Asp His  
20

<210> 226  
<211> 171  
<212> PRT  
<213> Homo sapiens

<400> 226  
Glu Ile Ile His Asn Leu Pro Thr Ser Arg Met Ala Ala Arg Thr Lys  
1 5 10 15  
Lys Lys Asn Asp Ile Ile Asn Ile Lys Val Pro Ala Asp Cys Asn Thr  
20 25 30  
Arg Met Ser Tyr Tyr Tyr Lys Gly Ser Gly Lys Arg Gly Glu Met Glu

35                      40                      45  
 Ser Trp Leu Val Met Ser Ser Trp Ser Ile Leu Asp Phe Glu Phe Leu  
     50                      55                      60  
 Glu Ala Arg Pro Gln Leu Phe Asn Leu Val Tyr Thr Glu His Ser Thr  
     65                      70                      75                      80  
 Tyr Ser Gly Arg His Tyr Thr Arg Glu Arg Gly Gly Phe Met Val Phe  
                     85                      90                      95  
 Lys Asn Ser Tyr Ser Gln Leu Leu Leu Lys Arg Lys Asp Ser Leu Cys  
                     100                      105                      110  
 Ala Phe Ile Gln Pro Met Ala Leu Asn Ile Ile His Val Pro Met Ser  
                     115                      120                      125  
 Ser Lys Cys Ile Phe Pro Ala Gln Ser Gly Pro Ser Thr Phe Arg Ser  
                     130                      135                      140  
 Leu Trp Trp Cys Pro His Pro Ile Ser Lys Cys Gln Leu Gly Leu Tyr  
     145                      150                      155                      160  
 Ser Ser Gln Ile Arg Asp Ile Pro Tyr Leu Ala  
                     165                      170

<210> 227  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 227  
 Glu Ile Ile His Asn Leu Pro Thr Ser Arg Met Ala Ala Arg Thr Lys  
     1                      5                      10                      15  
 Lys Lys Asn Asp Ile Ile Asn Ile Lys Val Pro Ala Asp Cys Asn Thr  
                     20                      25                      30  
 Arg Met Ser  
                     35

<210> 228  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 228  
 Tyr Tyr Tyr Lys Gly Ser Gly Lys Arg Gly Glu Met Glu Ser Trp Leu  
     1                      5                      10                      15  
 Val Met Ser Ser Trp Ser Ile Leu Asp Phe Glu Phe Leu Glu Ala Arg  
                     20                      25                      30  
 Pro Gln Leu Phe  
                     35

<210> 229  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 229  
 Asn Leu Val Tyr Thr Glu His Ser Thr Tyr Ser Gly Arg His Tyr Thr  
           1                  5                  10                  15  
 Arg Glu Arg Gly Gly Phe Met Val Phe Lys Asn Ser Tyr Ser Gln Leu  
                   20                  25                  30  
 Leu Leu Lys Arg  
                   35

<210> 230  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 230  
 Lys Asp Ser Leu Cys Ala Phe Ile Gln Pro Met Ala Leu Asn Ile Ile  
           1                  5                  10                  15  
 His Val Pro Met Ser Ser Lys Cys Ile Phe Pro Ala Gln Ser Gly Pro  
                   20                  25                  30  
 Ser Thr Phe  
                   35

<210> 231  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 231  
 Arg Ser Leu Trp Trp Cys Pro His Pro Ile Ser Lys Cys Gln Leu Gly  
           1                  5                  10                  15  
 Leu Tyr Ser Ser Gln Ile Arg Asp Ile Pro Tyr Leu Ala  
                   20                  25

<210> 232  
 <211> 533  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (473)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 232  
 Glu Ala Cys Gly Ala Ala Ala Met Ala Ala Leu Thr Ile Ala Thr Gly

1	5	10	15
Thr Gly Asn Trp Phe Ser Ala Leu Ala Leu Gly Val Thr Leu Leu Lys	20	25	30
Cys Leu Leu Ile Pro Thr Tyr His Ser Thr Asp Phe Glu Val His Arg	35	40	45
Asn Trp Leu Ala Ile Thr His Ser Leu Pro Ile Ser Gln Trp Tyr Tyr	50	55	60
Glu Ala Thr Ser Glu Trp Thr Leu Asp Tyr Pro Pro Phe Phe Ala Trp	65	70	75
Phe Glu Tyr Ile Leu Ser His Val Ala Lys Tyr Phe Asp Gln Glu Met	85	90	95
Leu Asn Val His Asn Leu Asn Tyr Ser Ser Ser Arg Thr Leu Leu Phe	100	105	110
Gln Arg Phe Ser Val Ile Phe Met Asp Val Leu Phe Val Tyr Ala Val	115	120	125
Arg Glu Cys Cys Lys Cys Ile Asp Gly Lys Lys Val Gly Lys Glu Leu	130	135	140
Thr Glu Lys Pro Lys Phe Ile Leu Ser Val Leu Leu Leu Trp Asn Phe	145	150	155
Gly Leu Leu Ile Val Asp His Ile His Phe Gln Tyr Asn Gly Phe Leu	165	170	175
Phe Gly Leu Met Leu Leu Ser Ile Ala Arg Leu Phe Gln Lys Arg His	180	185	190
Met Glu Gly Ala Phe Leu Phe Ala Val Leu Leu His Phe Lys His Ile	195	200	205
Tyr Leu Tyr Val Ala Pro Ala Tyr Gly Val Tyr Leu Leu Arg Ser Tyr	210	215	220
Cys Phe Thr Ala Asn Lys Pro Asp Gly Ser Ile Arg Trp Lys Ser Phe	225	230	235
Ser Phe Val Arg Val Ile Ser Leu Gly Leu Val Val Phe Leu Val Ser	245	250	255
Ala Leu Ser Leu Gly Pro Phe Leu Ala Leu Asn Gln Leu Pro Gln Val	260	265	270
Phe Ser Arg Leu Phe Pro Phe Lys Arg Gly Leu Cys His Ala Tyr Trp	275	280	285
Ala Pro Asn Phe Trp Ala Leu Tyr Asn Ala Leu Asp Lys Val Leu Ser	290	295	300
Val Ile Gly Leu Lys Leu Lys Phe Leu Asp Pro Asn Asn Ile Pro Lys	305	310	315
			320



Ala Ser Met Thr Ser Gly Leu Val Gln Gln Phe Gln His Thr Val Leu  
 325 330 335

Pro Ser Val Thr Pro Leu Ala Thr Leu Ile Cys Thr Leu Ile Ala Ile  
 340 345 350

Leu Pro Ser Ile Phe Cys Leu Trp Phe Lys Pro Gln Gly Pro Arg Gly  
 355 360 365

Phe Leu Arg Cys Leu Thr Leu Cys Ala Leu Ser Ser Phe Met Phe Gly  
 370 375 380

Trp His Val His Glu Lys Ala Ile Leu Leu Ala Ile Leu Pro Met Ser  
 385 390 395 400

Leu Leu Ser Val Gly Lys Ala Gly Asp Ala Ser Ile Phe Leu Ile Leu  
 405 410 415

Thr Thr Thr Gly His Tyr Ser Leu Phe Pro Leu Leu Phe Thr Ala Pro  
 420 425 430

Glu Leu Pro Ile Lys Ile Leu Leu Met Leu Leu Phe Thr Ile Tyr Ser  
 435 440 445

Ile Ser Ser Leu Lys Thr Leu Phe Arg Lys Glu Lys Pro Leu Phe Asn  
 450 455 460

Trp Met Glu Thr Phe Tyr Leu Leu Xaa Leu Gly Pro Leu Glu Val Cys  
 465 470 475 480

Cys Glu Phe Val Phe Pro Phe Thr Ser Trp Lys Val Lys Tyr Pro Phe  
 485 490 495

Ile Pro Leu Leu Leu Thr Ser Val Tyr Cys Ala Val Gly Ile Thr Tyr  
 500 505 510

Ala Trp Phe Lys Leu Tyr Val Ser Val Leu Ile Asp Ser Ala Ile Gly  
 515 520 525

Lys Thr Lys Lys Gln  
 530

&lt;210&gt; 233

&lt;211&gt; 460

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 233

Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser  
 1 5 10 15

Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu  
 20 25 30

Pro Lys Ser Arg Phe Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn  
 35 40 45

Gly Leu Leu Gln Leu Gly His Gly Leu Lys Asp Phe Val His Lys Thr  
 50 55 60  
 Lys Gly Gln Ile Asn Asp Ile Phe Gln Lys Leu Asn Ile Phe Asp Gln  
 65 70 75 80  
 Ser Phe Tyr Asp Leu Ser Leu Gln Thr Ser Glu Ile Lys Glu Glu Glu  
 85 90 95  
 Lys Glu Leu Arg Arg Thr Thr Tyr Lys Leu Gln Val Lys Asn Glu Glu  
 100 105 110  
 Val Lys Asn Met Ser Leu Glu Leu Asn Ser Lys Leu Glu Ser Leu Leu  
 115 120 125  
 Glu Glu Lys Ile Leu Leu Gln Gln Lys Val Lys Tyr Leu Glu Glu Gln  
 130 135 140  
 Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His Pro Glu  
 145 150 155 160  
 Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser Ile Lys  
 165 170 175  
 Asp Leu Leu Gln Thr Val Glu Asp Gln Tyr Lys Gln Leu Asn Gln Gln  
 180 185 190  
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile  
 195 200 205  
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg  
 210 215 220  
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp  
 225 230 235 240  
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr  
 245 250 255  
 Ser Gly Met Tyr Ala Ile Arg Pro Ser Asn Ser Gln Val Phe His Val  
 260 265 270  
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg  
 275 280 285  
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr  
 290 295 300  
 Gly Phe Gly Arg Leu Asp Gly Glu Phe Trp Leu Gly Leu Glu Lys Ile  
 305 310 315 320  
 Tyr Ser Ile Val Lys Gln Ser Asn Tyr Val Leu Arg Ile Glu Leu Glu  
 325 330 335  
 Asp Trp Lys Asp Asn Lys His Tyr Ile Glu Tyr Ser Phe Tyr Leu Gly  
 340 345 350

Asn His Glu Thr Asn Tyr Thr Leu His Leu Val Ala Ile Thr Gly Asn  
 355 360 365

Val Pro Asn Ala Ile Pro Glu Asn Lys Asp Leu Val Phe Ser Thr Trp  
 370 375 380

Asp His Lys Ala Lys Gly His Phe Asn Cys Pro Glu Gly Tyr Ser Gly  
 385 390 395 400

Gly Trp Trp Trp His Asp Glu Cys Gly Glu Asn Asn Leu Asn Gly Lys  
 405 410 415

Tyr Asn Lys Pro Arg Ala Lys Ser Lys Pro Glu Arg Arg Arg Gly Leu  
 420 425 430

Ser Trp Lys Ser Gln Asn Gly Arg Leu Tyr Ser Ile Lys Ser Thr Lys  
 435 440 445

Met Leu Ile His Pro Thr Asp Ser Glu Ser Phe Glu  
 450 455 460

<210> 234

<211> 37

<212> PRT

<213> Homo sapiens

<400> 234

Met Phe Thr Ile Lys Leu Leu Leu Phe Ile Val Pro Leu Val Ile Ser  
 1 5 10 15

Ser Arg Ile Asp Gln Asp Asn Ser Ser Phe Asp Ser Leu Ser Pro Glu  
 20 25 30

Pro Lys Ser Arg Phe  
 35

<210> 235

<211> 34

<212> PRT

<213> Homo sapiens

<400> 235

Ala Met Leu Asp Asp Val Lys Ile Leu Ala Asn Gly Leu Leu Gln Leu  
 1 5 10 15

Gly His Gly Leu Lys Asp Phe Val His Lys Thr Lys Gly Gln Ile Asn  
 20 25 30

Asp Ile

<210> 236

<211> 35

<212> PRT

<213> Homo sapiens

&lt;400&gt; 236

Phe Gln Lys Leu Asn Ile Phe Asp Gln Ser Phe Tyr Asp Leu Ser Leu  
 1 5 10 15

Gln Thr Ser Glu Ile Lys Glu Glu Glu Lys Glu Leu Arg Arg Thr Thr  
 20 25 30

Tyr Lys Leu  
 35

&lt;210&gt; 237

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

Gln Val Lys Asn Glu Glu Val Lys Asn Met Ser Leu Glu Leu Asn Ser  
 1 5 10 15

Lys Leu Glu Ser Leu Leu Glu Glu Lys Ile Leu Leu Gln Gln Lys Val  
 20 25 30

Lys Tyr Leu Glu  
 35

&lt;210&gt; 238

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

Glu Gln Leu Thr Asn Leu Ile Gln Asn Gln Pro Glu Thr Pro Glu His  
 1 5 10 15

Pro Glu Val Thr Ser Leu Lys Thr Phe Val Glu Lys Gln Asp Asn Ser  
 20 25 30

Ile Lys Asp Leu  
 35

&lt;210&gt; 239

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

Leu Gln Thr Val Glu Asp Gln Tyr Lys Gln Leu Asn Gln Gln His Ser  
 1 5 10 15

Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile Gln Glu  
 20 25 30

Pro Thr Glu  
 35

<210> 240  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg Thr Thr Pro Phe Leu  
     1                    5                    10                    15  
 Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp Gly Ile Pro Ala Glu  
                     20                    25                    30  
 Cys Thr Thr  
             35

<210> 241  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 241  
 Ile Tyr Asn Arg Gly Glu His Thr Ser Gly Met Tyr Ala Ile Arg Pro  
     1                    5                    10                    15  
 Ser Asn Ser Gln Val Phe His Val Tyr Cys Asp Val Ile Ser Gly Ser  
                     20                    25                    30  
 Pro Trp Thr Leu  
             35

<210> 242  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 242  
 Ile Gln His Arg Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu  
     1                    5                    10                    15  
 Asn Tyr Lys Tyr Gly Phe Gly Arg Leu Asp Gly Glu Phe Trp Leu Gly  
                     20                    25                    30  
 Leu Glu Lys Ile  
             35

<210> 243  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Tyr Ser Ile Val Lys Gln Ser Asn Tyr Val Leu Arg Ile Glu Leu Glu  
     1                    5                    10                    15

Asp Trp Lys Asp Asn Lys His Tyr Ile Glu Tyr Ser Phe Tyr Leu Gly  
                   20                  25                  30

Asn His Glu  
                   35

<210> 244  
 <211> 35.  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Thr Asn Tyr Thr Leu His Leu Val Ala Ile Thr Gly Asn Val Pro Asn  
       1                  5                  10                  15

Ala Ile Pro Glu Asn Lys Asp Leu Val Phe Ser Thr Trp Asp His Lys  
                   20                  25                  30

Ala Lys Gly  
                   35

<210> 245  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 His Phe Asn Cys Pro Glu Gly Tyr Ser Gly Gly Trp Trp Trp His Asp  
       1                  5                  10                  15

Glu Cys Gly Glu Asn Asn Leu Asn Gly Lys Tyr Asn Lys Pro Arg Ala  
                   20                  25                  30

Lys Ser Lys Pro  
                   35

<210> 246  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 246  
 Glu Arg Arg Arg Gly Leu Ser Trp Lys Ser Gln Asn Gly Arg Leu Tyr  
       1                  5                  10                  15

Ser Ile Lys Ser Thr Lys Met Leu Ile His Pro Thr Asp Ser Glu Ser  
                   20                  25                  30

Phe Glu

<210> 247  
 <211> 36

<212> PRT  
 <213> Homo sapiens

<400> 247  
 Leu Pro Pro Arg Gly Pro Ala Thr Phe Gly Ser Pro Gly Cys Pro Pro  
           1                  5                  10                  15  
 Ala Asn Ser Pro Pro Ser Ala Pro Ala Thr Pro Glu Pro Ala Arg Ala  
                   20                  25                  30  
 Pro Glu Arg Val  
                   35

<210> 248  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 248  
 Gly Thr Arg Ala Gly Val Ser Lys Tyr Thr Gly Gly Arg Gly Val Thr  
           1                  5                  10                  15  
 Trp Ala Pro Ser Ser Ala Ala Val Pro Arg Ile Ser Ser Ala Thr Met  
                   20                  25                  30  
 Arg Met Gly Leu Thr Ser Phe Ser Thr Thr Gly Ala  
                   35                  40

<210> 249  
 <211> 306  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (293)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 249  
 Trp Gln Ser Gly His Arg Leu Trp Gln Leu Glu Trp Pro Pro Pro Pro  
           1                  5                  10                  15  
 Leu Ser Ala Asp Glu His Pro Trp Glu Gly Pro Leu Pro Gly Thr Ser  
                   20                  25                  30  
 Pro Ser Pro Lys Phe Ser Met Pro Ser Pro Val Pro His Gly His His  
                   35                  40                  45  
 Arg Pro Thr Leu Thr Met Thr Arg Ser Trp Arg Ile Phe Phe Asn Asn  
                   50                  55                  60  
 Ile Ala Tyr Arg Ser Ser Ser Ala Asn Arg Leu Phe Arg Val Ile Arg  
                   65                  70                  75                  80  
 Arg Glu His Gly Asp Pro Leu Ile Glu Glu Leu Asn Pro Gly Asp Ala  
                   85                  90                  95

Leu Glu Pro Glu Gly Arg Gly Thr Gly Gly Val Val Thr Asp Phe Asp  
 100 105 110  
 Gly Asp Gly Met Leu Asp Leu Ile Leu Ser His Gly Glu Ser Met Ala  
 115 120 125  
 Gln Pro Leu Ser Val Phe Arg Gly Asn Gln Gly Phe Asn Asn Asn Trp  
 130 135 140  
 Leu Arg Val Val Pro Arg Thr Arg Phe Gly Ala Phe Ala Arg Gly Ala  
 145 150 155 160  
 Lys Val Val Leu Tyr Thr Lys Lys Ser Gly Ala His Leu Arg Ile Ile  
 165 170 175  
 Asp Gly Gly Ser Gly Tyr Leu Cys Glu Met Glu Pro Val Ala His Phe  
 180 185 190  
 Gly Leu Gly Lys Asp Glu Ala Ser Ser Val Glu Val Thr Trp Pro Asp  
 195 200 205  
 Gly Lys Met Val Ser Arg Asn Val Ala Ser Gly Glu Met Asn Ser Val  
 210 215 220  
 Leu Glu Ile Leu Tyr Pro Arg Asp Glu Asp Thr Leu Gln Asp Pro Ala  
 225 230 235 240  
 Pro Leu Glu Cys Gly Gln Gly Phe Ser Gln Gln Glu Asn Gly His Cys  
 245 250 255  
 Met Asp Thr Asn Glu Cys Ile Gln Phe Pro Phe Val Cys Pro Arg Asp  
 260 265 270  
 Lys Pro Val Cys Val Asn Thr Tyr Gly Ser Tyr Arg Cys Arg Thr Asn  
 275 280 285  
 Lys Lys Cys Ser Xaa Gly Leu Arg Val Pro Thr Arg Met Ala His Thr  
 290 295 300  
 Gly Leu  
 305

<210> 250

<211> 36

<212> PRT

<213> Homo sapiens

<400> 250

Trp Gln Ser Gly His Arg Leu Trp Gln Leu Glu Trp Pro Pro Pro Pro  
 1 5 10 15

Leu Ser Ala Asp Glu His Pro Trp Glu Gly Pro Leu Pro Gly Thr Ser  
 20 25 30

Pro Ser Pro Lys  
 35



<210> 251  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 251  
 Phe Ser Met Pro Ser Pro Val Pro His Gly His His Arg Pro Thr Leu  
   1                  5                  10                  15  
 Thr Met Thr Arg Ser Trp Arg Ile Phe Phe Asn Asn Ile Ala Tyr Arg  
                   20                  25                  30  
 Ser Ser Ser  
                   35

<210> 252  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 252  
 Ala Asn Arg Leu Phe Arg Val Ile Arg Arg Glu His Gly Asp Pro Leu  
   1                  5                  10                  15  
 Ile Glu Glu Leu Asn Pro Gly Asp Ala Leu Glu Pro Glu Gly Arg Gly  
                   20                  25                  30  
 Thr Gly Gly Val Val  
                   35

<210> 253  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 253  
 Thr Asp Phe Asp Gly Asp Gly Met Leu Asp Leu Ile Leu Ser His Gly  
   1                  5                  10                  15  
 Glu Ser Met Ala Gln Pro Leu Ser Val Phe Arg Gly Asn Gln Gly Phe  
                   20                  25                  30  
 Asn Asn

<210> 254  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 254  
 Asn Trp Leu Arg Val Val Pro Arg Thr Arg Phe Gly Ala Phe Ala Arg  
   1                  5                  10                  15

Gly Ala Lys Val Val Leu Tyr Thr Lys Lys Ser Gly Ala His Leu Arg  
                   20                  25                  30

Ile Ile Asp  
           35

<210> 255  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
 Gly Gly Ser Gly Tyr Leu Cys Glu Met Glu Pro Val Ala His Phe Gly  
   1                  5                  10                  15

Leu Gly Lys Asp Glu Ala Ser Ser Val Glu Val Thr Trp Pro Asp Gly  
                   20                  25                  30

Lys Met Val Ser  
           35

<210> 256  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Arg Asn Val Ala Ser Gly Glu Met Asn Ser Val Leu Glu Ile Leu Tyr  
   1                  5                  10                  15

Pro Arg Asp Glu Asp Thr Leu Gln Asp Pro Ala Pro Leu Glu Cys Gly  
                   20                  25                  30

Gln Gly Phe  
           35

<210> 257  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 257  
 Ser Gln Gln Glu Asn Gly His Cys Met Asp Thr Asn Glu Cys Ile Gln  
   1                  5                  10                  15

Phe Pro Phe Val Cys Pro Arg Asp Lys Pro Val Cys Val Asn Thr Tyr  
                   20                  25                  30

Gly Ser Tyr Arg  
           35

<210> 258  
 <211> 22

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 258  
 Cys Arg Thr Asn Lys Lys Cys Ser Xaa Gly Leu Arg Val Pro Thr Arg  
           1                  5                  10                  15  
 Met Ala His Thr Gly Leu  
                           20

<210> 259  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 Gln Ser Pro Ile Asp Ile Gln Thr Asp  
           1                  5

<210> 260  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Leu His Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu  
           1                  5                  10                  15  
 Tyr Leu

<210> 261  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 Tyr Val Ala Ala Gln Leu His Leu His Trp Gly  
           1                  5                  10

<210> 262  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Ala Glu Leu His Ile Val His Tyr Asp Ser Asp  
           1                  5                  10

<210> 263  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 263  
 Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His Trp Pro  
           1                  5                  10                  15

<210> 264  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 264  
 Gln Ser Pro Ile Asp Ile Gln Thr Asp Ser Val Thr Phe Asp  
           1                  5                  10

<210> 265  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 265  
 Leu His Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr  
           1                  5                  10                  15

<210> 266  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 266  
 Lys Tyr Val Ala Ala Gln Leu His Leu His Trp Gly  
           1                  5                  10

<210> 267  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
 Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr  
           1                  5                  10

<210> 268  
 <211> 1667  
 <212> DNA  
 <213> Homo sapiens

<400> 268  
GGCCGCGCCG CCGCTGCCGC CGCCGCGCGC GATTCTGCTT CTCAGAAGAT GCACTATTAT 60  
AGATACTCTA ACGCCAAGGT CAGCTGCTGG TACAAGTACC TCCTTTTCAG CTACAACATC 120  
ATCTTCTGAT TGGCTGGAGT TGTCTTCCTT GGAGTCGGGC TGTGGGCATG GAGCGAAAAG 180  
GGTGTGCTGT CCGACCTCAC CAAAGTGACC CGGATGCATG GAATCGACCC TGTGGTGCTG 240  
GTCCTGATGG TGGGCGTGGT GATGTTTACC CTGGGGTTCG CCGGCTGCGT GGGGGCTCTG 300  
CGGGAGAATA TCTGCTTGCT CAACTTTTTT TGTGGCACCA TCGTGCTCAT CTTCTTCCTG 360  
GAGCTGGCTG TGGCCGTGCT GGCCTTCCTG TTCCAGGACT GGGTGAGGGA CCGGTTCCGG 420  
GAGTTCTTCG AGAGCAACAT CAAGTCCTAC CGGGACGATA TCGATCTGCA AAACCTCATC 480  
GACTCCCTTC AGAAAGCTAA CCAGTGCTGT GGCGCATATG GCCCTGAAAG ACTGGGACCT 540  
CAGACGTCTA CTTCAATTGC AGCGGTGCCA GCTACAGCCG AGAGAATGCG GGGTCCCCTT 600  
CTCCTGCTGC GTGCCAGATC CTGCGCAAAA AGTTGTGAAC ACACAGTGTG GATATGATGT 660  
CAGGATTCAG CTGAAGAGCA AGTGGGATGA GTCCATCTTC ACGAAAGGCT GCATCCAGGC 720  
GCTGGAAAGC TGGCTCCCGC GGAACATTTA CATTGTGGCT GGCGTCTTCA TCGCCATCTC 780  
GCTGTTGCAG ATATTTGGCA TCTTCCTGGC AAGGACGCTG ATCTCAGACA TCGAGGCAGT 840  
GAAGGCCGGC CATCACTTCT GAGGAGCAGA GTTGAGGGAG CCGAGCTGAG CCACGCTGGG 900  
AGGCCAGAGC CTTTCTCTGC CATCAGCCCT ACGTCCAGAG GGAGAGGAGC CGACACCCCC 960  
AGAGCCAGTG CCCCATCTTA AGCATCAGCG TGACGTGACC TCTCTGTTTC TGCTTGCTGG 1020  
TGCTGAAGAC CAAGGGTCCC CCTTGTTACC TGCCCAAAC TGTGACTGCA TCCCTCTGGA 1080  
GTCTACCCAG AGACAGAGAA TGTGTCTTTA TGTGGGAGTG GTGACTCTGA AAGACAGAGA 1140  
GGGCTCCTGT GGCTGCCAGG AGGGCTTGAC TCAGACCCCC TGCAGCTCAA GCATGTCTGC 1200  
AGGACACCTG GTCCCCCTCT CCCAGTGGCA TCCCAAACAT CTGCTTTGGG TCCATCCCAC 1260  
ATCTGTGGGT GGGCCCGTGG GTAAGAAGGG AACCCACAG GCGTGGAACA GGGCATCCTC 1320  
TCTCCCATCC AAGCAAAGCC AGCATGGGGG CCTGCCCGTA ACGGGAGGCG GACGTGGCCC 1380  
CGCTGGGCCT CTGAGTGCCA GCGCAGTCTG CTGGGACATG CACATATCAG GGGTTGTTTG 1440  
CAGGATCCTC AGCCATGTTT AAGTGAAGTA AGCCTGAGCC AGTGCCTGGA CTGGTGCCAC 1500  
GGGAGTGCCT TGTCCACTGT CCCCCTGTGT CCACCAGCTA TTCTCCTGGC GCCGGAACCTG 1560  
CCTCTGGTCT TGATAGCATT AAGCCCTGAT TGGCCGGTGG CGCGGTGGGC ATGGTTCTTC 1620  
ACTGAGAGCC GGCTCTCCTT TTCTTAAAGT GTGTAAATAG TTTATTT 1667

<210> 269  
 <211> 270  
 <212> PRT  
 <213> Homo sapiens

<400> 269

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Met His Tyr Tyr Arg Tyr Ser Asn Ala Lys Val Ser Cys Trp Tyr Lys
  1           5           10           15

Tyr Leu Leu Phe Ser Tyr Asn Ile Ile Phe Trp Leu Ala Gly Val Val
      20           25           30

Phe Leu Gly Val Gly Leu Trp Ala Trp Ser Glu Lys Gly Val Leu Ser
      35           40           45

Asp Leu Thr Lys Val Thr Arg Met His Gly Ile Asp Pro Val Val Leu
      50           55           60

Val Leu Met Val Gly Val Val Met Phe Thr Leu Gly Phe Ala Gly Cys
      65           70           75           80

Val Gly Ala Leu Arg Glu Asn Ile Cys Leu Leu Asn Phe Phe Cys Gly
      85           90           95

Thr Ile Val Leu Ile Phe Phe Leu Glu Leu Ala Val Ala Val Leu Ala
      100          105          110

Phe Leu Phe Gln Asp Trp Val Arg Asp Arg Phe Arg Glu Phe Phe Glu
      115          120          125

Ser Asn Ile Lys Ser Tyr Arg Asp Asp Ile Asp Leu Gln Asn Leu Ile
      130          135          140

Asp Ser Leu Gln Lys Ala Asn Gln Cys Cys Gly Ala Tyr Gly Pro Glu
      145          150          155          160

Asp Trp Asp Leu Asn Val Tyr Phe Asn Cys Ser Gly Ala Ser Tyr Ser
      165          170          175

Arg Glu Lys Cys Gly Val Pro Phe Ser Cys Cys Val Pro Asp Pro Ala
      180          185          190

Gln Lys Val Val Asn Thr Gln Cys Gly Tyr Asp Val Arg Ile Gln Leu
      195          200          205

Lys Ser Lys Trp Asp Glu Ser Ile Phe Thr Lys Gly Cys Ile Gln Ala
      210          215          220

Leu Glu Ser Trp Leu Pro Arg Asn Ile Tyr Ile Val Ala Gly Val Phe
      225          230          235          240

Ile Ala Ile Ser Leu Leu Gln Ile Phe Gly Ile Phe Leu Ala Arg Thr
      245          250          255

Leu Ile Ser Asp Ile Glu Ala Val Lys Ala Gly His His Phe
      260          265          270

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<210> 270  
 <211> 277  
 <212> PRT  
 <213> Homo sapiens

<400> 270

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Ser Gly Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu
  1           5           10           15

Val Arg Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser
          20           25           30

Gly Asn Gly Ser Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu
  35           40           45

Ser Pro Phe His Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg
  50           55           60

Gly Pro Gly Pro Val Leu Gly Val Ala Arg Pro Cys Leu Arg Cys Val
  65           70           75           80

Leu Arg Pro Glu His Tyr Glu Pro Gly Ser His Tyr Ser Gly Phe Ala
          85           90           95

Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys Ser Glu Ala
          100          105          110

Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu Met Leu Thr
          115          120          125

Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val Cys Val Gly
          130          135          140

Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala
          145          150          155          160

Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys
          165          170          175

Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp
          180          185          190

Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly
          195          200          205

Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr Lys Pro Gly
          210          215          220

Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly Pro Pro Ser
          225          230          235          240

Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp
          245          250          255

His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr
          260          265          270

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Cys Ser Phe Pro Leu  
275

<210> 271  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 271  
Ser Gly Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu  
1 5 10 15

Val Arg Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser  
20 25 30

Gly Asn Gly Ser  
35

<210> 272  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 272  
Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu Ser Pro Phe His  
1 5 10 15

Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg Gly Pro Gly Pro  
20 25 30

Val Leu Gly Val  
35

<210> 273  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 273  
Ala Arg Pro Cys Leu Arg Cys Val Leu Arg Pro Glu His Tyr Glu Pro  
1 5 10 15

Gly Ser His Tyr Ser Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe  
20 25 30

Val Thr Gly Asp  
35

<210> 274  
<211> 36  
<212> PRT  
<213> Homo sapiens



&lt;400&gt; 274

Cys Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala  
 1 5 10 15

Glu Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr  
 20 25 30

Val Cys Val Gly  
 35

&lt;210&gt; 275

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala  
 1 5 10 15

Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys  
 20 25 30

Leu Gln Leu Gln  
 35

&lt;210&gt; 276

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 276

Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp Ser Ser Ala Arg  
 1 5 10 15

Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly Val Ser Arg Asp  
 20 25 30

Trp Ile Gly Val  
 35

&lt;210&gt; 277

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

Pro Arg Lys Leu Tyr Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys  
 1 5 10 15

Val Arg Thr Thr Gly Pro Pro Ser Gly Gln Met Pro Asp  
 20 25

&lt;210&gt; 278

&lt;211&gt; 32

<212> PRT  
 <213> Homo sapiens

<400> 278  
 Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp His Pro Asn Leu Ala  
 1 5 10 15  
 Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr Cys Ser Phe Pro Leu  
 20 25 30

<210> 279  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Ser Gln Leu Leu Pro Gly Ser Val Pro Gly Trp Ala Ala His Pro Leu  
 1 5 10 15  
 Arg Arg Thr Val Leu Ser Pro Ser Gln His Thr His Asn Ser Ser His  
 20 25 30  
 Arg Met Lys Ala Asn Cys Glu Val Ser Ala Ser Gln Arg Leu Thr Gly  
 35 40 45  
 Arg Ile Arg His Pro Arg Gly Leu Leu Gln Asn Ser Pro Arg Ser Arg  
 50 55 60  
 Lys Leu Trp Met Arg Leu Gly Leu Arg Ser Arg Tyr Ser Gly Thr Gln  
 65 70 75 80  
 Ala Arg Ser Ala Pro Ala Gly Gly His Ile Val Asp Thr Ala Glu Gln  
 85 90 95  
 Arg Gln Val Gln Ala Arg Val Pro Trp Ala Ala Ala Val Ala Arg Gln  
 100 105 110  
 Leu Leu Arg Tyr Glu Lys Ala Lys Ala Ser Ala Gly Thr Pro Pro Ala  
 115 120 125  
 His Lys Pro Cys Cys His Tyr Arg Cys Cys Gly Tyr Ser Gln Ala Gln  
 130 135 140  
 Gln Lys Pro Thr Ala Ser Ala Pro Gln His Leu Tyr Arg Pro Thr Arg  
 145 150 155 160  
 Pro His Phe Arg Gly Cys Arg Ser Ile Ser Val  
 165 170

<210> 280  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 280

Leu Leu Leu Cys Pro Trp Trp Leu Cys Phe Asp Trp Ser  
 1 5 10

&lt;210&gt; 281

&lt;211&gt; 270

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile  
 1 5 10 15

Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala  
 20 25 30

Leu Cys Ser Glu Asp Gly His Lys Arg Arg Ile Leu Thr Leu Gly Leu  
 35 40 45

Gly Phe Leu Val Ile Pro Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg  
 50 55 60

Val Gly Phe Val Val Ala Glu Cys Val Leu Tyr Leu Pro Ser Ile Gly  
 65 70 75 80

Tyr Cys Val Leu Leu Thr Phe Gly Phe Gly Ala Leu Ser Lys His Thr  
 85 90 95

Lys Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile Leu Phe Ile  
 100 105 110

Asn Thr Leu Arg Cys Val Leu Arg Thr Ala Lys Trp Arg Ser Glu Glu  
 115 120 125

Gln Leu Phe Arg Ser Ala Leu Ser Val Cys Pro Leu Asn Ala Lys Val  
 130 135 140

His Tyr Asn Ile Gly Lys Asn Leu Ala Asp Lys Gly Asn Gln Thr Ala  
 145 150 155 160

Ala Ile Arg Tyr Tyr Arg Glu Ala Val Arg Leu Asn Pro Lys Tyr Val  
 165 170 175

His Ala Met Asn Asn Leu Gly Asn Ile Leu Lys Glu Arg Asn Glu Leu  
 180 185 190

Gln Glu Ala Glu Glu Leu Leu Ser Leu Ala Val Gln Ile Gln Pro Asp  
 195 200 205

Phe Ala Ala Ala Trp Met Asn Leu Gly Ile Val Gln Asn Ser Leu Lys  
 210 215 220

Arg Phe Glu Thr Ala Glu Gln Asn Tyr Arg Thr Ala Ile Lys His Arg  
 225 230 235 240

Arg Lys Tyr Pro Asp Cys Tyr Tyr Asn Leu Gly Arg Leu Val Arg Thr

164

245

250

255

Gly Cys Pro Val Pro Val Glu Gly Lys Met Gly Tyr Phe Ser  
260 265 270

<210> 282  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 282  
Met Gly Cys Ile Pro Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile  
1 5 10 15

Ala Leu Ala Ala Leu Trp Phe Cys Leu Ile Gly Leu Ile Cys Gln Ala  
20 25 30

Leu Cys Ser Glu Asp Gly  
35

<210> 283  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 283  
His Lys Arg Arg Ile Leu Thr Leu Gly Leu Gly Phe Leu Val Ile Pro  
1 5 10 15

Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Ala  
20 25 30

Glu Cys Val Leu Tyr Leu  
35

<210> 284  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 284  
Pro Ser Ile Gly Tyr Cys Val Leu Leu Thr Phe Gly Phe Gly Ala Leu  
1 5 10 15

Ser Lys His Thr Lys Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly  
20 25 30

Ile Leu Phe Ile Asn Thr  
35

<210> 285  
<211> 38  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 285

Leu Arg Cys Val Leu Arg Thr Ala Lys Trp Arg Ser Glu Glu Gln Leu  
 1 5 10 15

Phe Arg Ser Ala Leu Ser Val Cys Pro Leu Asn Ala Lys Val His Tyr  
 20 25 30

Asn Ile Gly Lys Asn Leu  
 35

&lt;210&gt; 286

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Ala Asp Lys Gly Asn Gln Thr Ala Ala Ile Arg Tyr Tyr Arg Glu Ala  
 1 5 10 15

Val Arg Leu Asn Pro Lys Tyr Val His Ala Met Asn Asn Leu Gly Asn  
 20 25 30

Ile Leu Lys Glu Arg Asn  
 35

&lt;210&gt; 287

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

Glu Leu Gln Glu Ala Glu Glu Leu Leu Ser Leu Ala Val Gln Ile Gln  
 1 5 10 15

Pro Asp Phe Ala Ala Ala Trp Met Asn Leu Gly Ile Val Gln Asn Ser  
 20 25 30

Leu Lys Arg Phe Glu Thr  
 35

&lt;210&gt; 288

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 288

Ala Glu Gln Asn Tyr Arg Thr Ala Ile Lys His Arg Arg Lys Tyr Pro  
 1 5 10 15

Asp Cys Tyr Tyr Asn Leu Gly Arg Leu Val Arg Thr Gly Cys Pro Val  
 20 25 30

Pro Val Glu Gly Lys Met Gly Tyr Phe Ser  
 35 40

<210> 289  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 289  
 Leu Ile Lys Ser Ile Ser Asp Trp Arg Val Ile Ala Leu Ala Ala Leu  
           1                  5                  10                  15

<210> 290  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 290  
 Arg Asp Asn Asp Tyr Leu Leu His Gly His Arg Pro Pro Met Phe  
           1                  5                  10                  15

<210> 291  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 Ser Phe Arg Ala Cys Phe Lys Ser Ile Phe Arg Ile His Thr Glu Thr  
           1                  5                  10                  15

Gly Asn Ile Trp Thr His Leu Leu  
                   20

<210> 292  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Gly Phe Val Leu Phe Leu Phe Leu Gly Ile Leu Thr Met Leu Arg Pro  
           1                  5                  10                  15

Asn Met Tyr Phe Met Ala Pro Leu Gln Glu Lys Val Val  
                   20                  25

<210> 293  
 <211> 457  
 <212> PRT  
 <213> Homo sapiens

<400> 293  
 Thr Gly Pro Glu Phe Pro Gly Ser Asn Ser Thr Val Ala Arg Arg Ile

1	5	10	15
Lys	Asp	Leu	Ala
20		Glu	Glu
	25	Leu	Val
		Cys	Arg
		Leu	Lys
		30	
Ile	Cys	Asp	Gly
35		Phe	Ser
	40	Leu	Gln
		Leu	Asp
		Glu	Ser
		Ala	Asp
		Val	Ser
		45	
Gly	Leu	Ala	Val
50		Leu	Val
	55	Phe	Val
		Arg	Tyr
		Arg	Phe
		Asn	Lys
		Ser	
		60	
Ile	Glu	Glu	Asp
65		Leu	Leu
	70	Leu	Cys
		Glu	Ser
		Leu	Gln
		Ser	Asn
		Ala	Thr
		80	
Gly	Glu	Glu	Ile
	Phe	Asn	Cys
	85	Ile	Asn
		Ser	Phe
		Met	Gln
		Lys	His
		Glu	
		95	
Ile	Glu	Trp	Glu
100		Lys	Cys
	Val	Asp	Val
	105	Cys	Ser
		Asp	Ala
		Ser	Arg
		Ala	
		110	
Val	Asp	Gly	Lys
115		Ile	Ala
	Glu	Ala	Val
	120	Thr	Leu
		Ile	Lys
		Tyr	Val
		Ala	
		125	
Pro	Glu	Ser	Thr
130		Ser	Ser
	His	Cys	Leu
	135	Leu	Tyr
		Arg	His
		Ala	Leu
		Ala	
		140	
Val	Lys	Ile	Met
145		Pro	Thr
	Ser	Leu	Lys
	150	Asn	Val
		Leu	Asp
		Gln	Ala
		Val	
		155	
Gln	Ile	Ile	Asn
165		Tyr	Ile
	Lys	Ala	Arg
	170	Pro	His
		Gln	Ser
		Arg	Leu
		Leu	
		175	
Lys	Ile	Leu	Cys
180		Glu	Glu
	Met	Gly	Ala
	185	Gln	His
		Thr	Ala
		Leu	Leu
		Leu	
		190	
Asn	Thr	Glu	Val
195		Arg	Trp
	Leu	Ser	Arg
	200	Gly	Lys
		Val	Leu
		Val	Arg
		Leu	
		205	
Phe	Glu	Leu	Arg
210		Arg	Glu
	Leu	Leu	Val
	215	Phe	Met
		Asp	Ser
		Ala	Phe
		Arg	
		220	
Leu	Ser	Asp	Cys
225		Leu	Thr
	Asn	Ser	Ser
	230	Trp	Leu
		Leu	Arg
		Leu	Ala
		Tyr	
		240	
Leu	Ala	Asp	Ile
245		Phe	Thr
	Lys	Leu	Asn
	250	Glu	Val
		Asn	Leu
		Ser	Met
		Gln	
		255	
Gly	Lys	Asn	Val
260		Thr	Val
	Phe	Thr	Val
	265	Phe	Asp
		Lys	Met
		Ser	Ser
		Leu	
		270	
Leu	Arg	Lys	Leu
275		Glu	Phe
	Trp	Ala	Ser
	280	Ser	Val
		Glu	Glu
		Glu	Asn
		Phe	
		285	
Asp	Cys	Phe	Pro
290		Thr	Leu
	Ser	Asp	Phe
	295	Leu	Thr
		Glu	Ile
		Asn	Ser
		Thr	
		300	
Val	Asp	Lys	Asp
305		Ile	Cys
	Ser	Ala	Ile
	310	Val	Gln
		His	Leu
		Arg	Gly
		Leu	
		320	

Arg Ala Thr Leu Leu Lys Tyr Phe Pro Val Thr Asn Asp Asn Asn Ala  
                           325                          330                          335

Trp Val Arg Asn Pro Phe Thr Val Thr Val Lys Pro Ala Ser Leu Val  
                           340                          345                          350

Ala Arg Asp Tyr Glu Ser Leu Ile Asp Leu Thr Ser Asp Ser Gln Val  
                           355                          360                          365

Lys Gln Asn Phe Ser Glu Leu Ser Leu Asn Asp Phe Trp Ser Ser Leu  
                           370                          375                          380

Ile Gln Glu Tyr Pro Ser Ile Ala Arg Arg Ala Val Arg Val Leu Leu  
                           385                          390                          395                          400

Pro Phe Ala Thr Met His Leu Cys Glu Thr Gly Phe Ser Tyr Tyr Ala  
                           405                          410                          415

Ala Thr Lys Thr Lys Tyr Arg Lys Arg Leu Asp Ala Ala Pro His Met  
                           420                          425                          430

Arg Ile Arg Leu Ser Asn Ile Thr Pro Asn Ile Lys Arg Ile Cys Asp  
                           435                          440                          445

Lys Lys Thr Gln Lys His Cys Ser His  
                           450                          455

<210> 294

<211> 31

<212> PRT

<213> Homo sapiens

<400> 294

Asp Ile Glu Glu Glu Leu Val Cys Arg Leu Lys Ile Cys Asp Gly Phe  
           1                          5                          10                          15

Ser Leu Gln Leu Asp Glu Ser Ala Asp Val Ser Gly Leu Ala Val  
                           20                          25                          30

<210> 295

<211> 36

<212> PRT

<213> Homo sapiens

<400> 295

Asn Ser Phe Met Gln Lys His Glu Ile Glu Trp Glu Lys Cys Val Asp  
           1                          5                          10                          15

Val Cys Ser Asp Ala Ser Arg Ala Val Asp Gly Lys Ile Ala Glu Ala  
                           20                          25                          30

Val Thr Leu Ile  
                           35



<210> 296  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 296  
 Leu Asp Gln Ala Val Gln Ile Ile Asn Tyr Ile Lys Ala Arg Pro His  
   1                  5                  10                  15  
 Gln Ser Arg Leu Leu Lys Ile Leu Cys Glu Glu Met Gly Ala Gln His  
           20                  25                  30  
 Thr Ala Leu Leu  
           35

<210> 297  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 297  
 Ser Ala Phe Arg Leu Ser Asp Cys Leu Thr Asn Ser Ser Trp Leu Leu  
   1                  5                  10                  15  
 Arg Leu Ala Tyr Leu Ala Asp Ile Phe Thr Lys Leu Asn Glu Val Asn  
           20                  25                  30  
 Leu Ser Met Gln Gly Lys Asn Val Thr Val Phe Thr Val Phe Asp Lys  
           35                  40                  45

Met

<210> 298  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 298  
 Ser Asp Phe Leu Thr Glu Ile Asn Ser Thr Val Asp Lys Asp Ile Cys  
   1                  5                  10                  15  
 Ser Ala Ile Val Gln His Leu Arg Gly Leu Arg Ala Thr Leu Leu Lys  
           20                  25                  30

<210> 299  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Ser Asp Ser Gln Val Lys Gln Asn Phe Ser Glu Leu Ser Leu Asn Asp

1                    5                    10                    15  
Phe Trp Ser Ser Leu Ile Gln Glu Tyr Pro Ser Ile Ala Arg Arg Ala  
                  20                    25                    30

Val Arg Val Leu Leu Pro  
                  35

<210> 300  
<211> 325  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (222)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 300  
Asp Pro Arg Val Arg Glu Cys Leu Gln Asp Trp Ala Ser Phe Leu Arg  
1                    5                    10                    15

Leu Ala Ile Pro Ser Met Leu Met Leu Cys Met Glu Trp Trp Ala Tyr  
                  20                    25                    30

Glu Val Gly Ser Phe Leu Ser Gly Ile Leu Gly Met Val Glu Leu Gly  
                  35                    40                    45

Ala Gln Ser Ile Val Tyr Glu Leu Ala Ile Ile Val Tyr Met Val Pro  
                  50                    55                    60

Ala Gly Phe Ser Val Ala Ala Ser Val Arg Val Gly Asn Ala Leu Gly  
65                    70                    75                    80

Ala Gly Asp Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu  
                  85                    90                    95

Ile Thr Val Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys  
                  100                    105                    110

Lys Asp His Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn  
115                    120                    125

Leu Val Ala Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu  
130                    135                    140

Ala Leu Ala Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln  
145                    150                    155                    160

Lys Val Gly Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu  
                  165                    170                    175

Pro Ile Gly Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly  
                   180                  185                  190  
 Leu Trp Ser Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe  
                   195                  200                  205  
 Leu Gly Phe Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala  
                   210                  215                  220  
 Gln Val His Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn  
                   225                  230                  235                  240  
 Ser Ala Leu Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu  
                   245                  250                  255  
 Glu Gly Ile Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser  
                   260                  265                  270  
 Asp Gln Gln Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp  
                   275                  280                  285  
 Gly Ala Lys Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu  
                   290                  295                  300  
 Leu Leu Gly Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe  
                   305                  310                  315                  320  
 Tyr Val Arg Ile Gln  
                   325

<210> 301  
 <211> 328  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Gly Thr Arg Ile His Thr Ile Leu Val Tyr Gln Glu Ser Asn Arg Lys  
   1                  5                  10                  15  
 Met Asp Ser Val Asp Pro Ala Ser Ser Gln Ala Met Glu Leu Ser Asp  
                   20                  25                  30  
 Val Thr Leu Ile Glu Gly Val Gly Asn Glu Val Met Val Val Ala Gly  
                   35                  40                  45  
 Val Val Val Leu Ile Leu Ala Leu Val Leu Ala Trp Leu Ser Thr Tyr  
                   50                  55                  60  
 Val Ala Asp Ser Gly Ser Asn Gln Leu Leu Gly Ala Ile Val Ser Ala  
   65                  70                  75                  80  
 Gly Asp Thr Ser Val Leu His Leu Gly His Val Asp His Leu Val Ala  
                   85                  90                  95  
 Gly Gln Gly Asn Pro Glu Pro Thr Glu Leu Pro His Pro Ser Glu Gly  
                   100                  105                  110

Asn Asp Glu Lys Ala Glu Glu Ala Gly Glu Gly Arg Gly Asp Ser Thr  
 115 120 125  
 Gly Glu Ala Gly Ala Gly Gly Gly Val Glu Pro Ser Leu Glu His Leu  
 130 135 140  
 Leu Asp Ile Gln Gly Leu Pro Lys Arg Gln Ala Gly Ala Gly Ser Ser  
 145 150 155 160  
 Ser Pro Glu Ala Pro Leu Arg Ser Glu Asp Ser Thr Cys Leu Pro Pro  
 165 170 175  
 Ser Pro Gly Leu Ile Thr Val Arg Leu Lys Phe Leu Asn Asp Thr Glu  
 180 185 190  
 Glu Leu Ala Val Ala Arg Pro Glu Asp Thr Val Gly Ala Leu Lys Ser  
 195 200 205  
 Lys Tyr Phe Pro Gly Gln Glu Ser Gln Met Lys Leu Ile Tyr Gln Gly  
 210 215 220  
 Arg Leu Leu Gln Asp Pro Ala Arg Thr Leu Arg Ser Leu Asn Ile Thr  
 225 230 235 240  
 Asp Asn Cys Val Ile His Cys His Arg Ser Pro Pro Gly Ser Ala Val  
 245 250 255  
 Pro Gly Pro Ser Ala Ser Leu Ala Pro Ser Ala Thr Glu Pro Pro Ser  
 260 265 270  
 Leu Gly Val Asn Val Gly Ser Leu Met Val Pro Val Phe Val Val Leu  
 275 280 285  
 Leu Gly Val Val Trp Tyr Phe Arg Ile Asn Tyr Arg Gln Phe Phe Thr  
 290 295 300  
 Ala Pro Ala Thr Val Ser Leu Val Gly Val Thr Val Phe Phe Ser Phe  
 305 310 315 320  
 Leu Val Phe Gly Met Tyr Gly Arg  
 325

&lt;210&gt; 302

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

Asp Ser Arg Ile Ser Leu Leu Val Asn Asn Ala Gly Val Gly Ala Thr  
 1 5 10 15

Ala Ser Leu Leu Glu Ser Asp Ala Asp Lys  
 20 25

&lt;210&gt; 303

&lt;211&gt; 159

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 303

Met Asp Ala Met Ile Leu Leu Asn Val Leu Ala Leu Thr Arg Leu Ala  
 1 5 10 15

Lys Ala Ala Ala Thr Asn Phe Val Ala Gln Gly Arg Gly Thr Ile Ile  
 20 25 30

Asn Ile Gly Ser Ile Val Ala Leu Ala Pro Lys Val Leu Asn Gly Val  
 35 40 45

Tyr Gly Gly Thr Lys Ala Phe Val Gln Ala Phe Ser Glu Ser Leu Gln  
 50 55 60

His Glu Leu Ser Asp Lys Gly Val Val Val Gln Val Val Leu Pro Gly  
 65 70 75 80

Ala Thr Ala Thr Glu Phe Trp Asp Ile Ala Gly Leu Pro Val Asn Asn  
 85 90 95

Leu Pro Glu Ala Met Val Met Thr Thr Glu Asn Leu Val Xaa Ala Ala  
 100 105 110

Leu Ala Gly Leu Ala Gln Gly Glu Ala Val Thr Ile Pro Ser Leu Pro  
 115 120 125

Asp Ser Ala Asp Trp Asp Thr Tyr Glu Arg Ala Arg Leu Ala Leu Gly  
 130 135 140

Pro Asn Leu Ser His Arg Glu Pro Ala Ala Arg Tyr Gly Leu Lys  
 145 150 155

<210> 304

<211> 146

<212> PRT

<213> Homo sapiens

<400> 304

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg  
 1 5 10 15

Pro Ser Arg Thr Glu Ser Ala Gln Thr Thr Gln His Ser Pro Leu Arg  
 20 25 30

Pro Leu Trp Arg Leu Lys Arg Asp Ser Ser Pro Cys His Pro Gln Thr  
 35 40 45

Arg Ala Asp Trp Gly Val Cys Pro Pro Trp Gly Gly Ala Ala Gln Gly  
 50 55 60

Leu Arg Pro Gly Cys His Leu Ala Pro Arg Arg Cys Leu Cys Pro Gly  
65 70 75 80

Ser Cys Cys Pro Trp His Trp Ala Glu Ala Gln Trp Ser Phe Leu Trp  
85 90 95

Arg Gly Leu Trp Gly Leu Arg Thr Leu Pro Thr Ala Leu Arg Ala Ser  
100 105 110

Pro Ala Ala Ser Gly Thr Val Thr Tyr Ser Ala Cys Leu Gly Thr Ser  
115 120 125

Cys Leu Leu Arg Ala Pro Cys Trp Arg Leu Arg Thr Cys Arg Gln Ser  
130 135 140

Trp Cys  
145

<210> 305  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 305  
Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg  
1 5 10 15

Pro Ser Arg Thr Glu Ser Ala Gln Thr Thr Gln His  
20 25

<210> 306  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 306  
Ser Pro Leu Arg Pro Leu Trp Arg Leu Lys Arg Asp Ser Ser Pro Cys  
1 5 10 15

His Pro Gln Thr Arg Ala Asp Trp Gly Val Cys Pro Pro Trp  
20 25 30

<210> 307  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 307  
Gly Gly Ala Ala Gln Gly Leu Arg Pro Gly Cys His Leu Ala Pro Arg  
1 5 10 15

Arg Cys Leu Cys Pro Gly Ser Cys Cys Pro Trp His Trp Ala  
20 25 30



Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr  
 145 150 155 160  
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr  
 165 170 175  
 Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro  
 180 185 190  
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala  
 195 200 205  
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val  
 210 215 220  
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn  
 225 230 235 240  
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly  
 245 250 255  
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys  
 260 265 270  
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Thr Asn Ile Cys  
 275 280 285  
 Pro Phe Arg Glu Asp Pro Arg Ala His Gln Asn Leu Trp Gln Ala Ala  
 290 295 300  
 Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp Leu Leu Asp Ala Pro Cys  
 305 310 315 320  
 Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp Arg Ala Pro Gly Gly Asp  
 325 330 335  
 Pro Cys Gln Pro Leu Val Pro Pro Leu Ser Trp Glu Asn Val Thr Val  
 340 345 350  
 Asp Lys Val Leu Glu Phe Pro Leu Leu Lys Gly His Pro Asn Leu Cys  
 355 360 365  
 Val Gln Val Asn Ser Ser Glu Lys Leu Gln Leu Gln Glu Cys Leu Trp  
 370 375 380  
 Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp Val Leu Leu Leu Glu Thr  
 385 390 395 400  
 Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys Ala Leu Glu Pro Ser Gly  
 405 410 415  
 Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr Arg Ala Ala Arg Leu Gly  
 420 425 430  
 Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly Gln Cys Leu Gln Leu Trp  
 435 440 445



Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys Pro Met Asp Lys Tyr Ile  
 450 455 460

His Lys Arg Trp Ala Leu Val Trp Leu Ala Cys Leu Leu Phe Arg Arg  
 465 470 475 480

Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys Asp His Ala Lys Gly Trp  
 485 490 495

Leu Arg Leu Leu Lys Gln Asp Val Arg Ser Gly  
 500 505

<210> 311  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly  
 1 5 10

<210> 312  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Arg Arg Ser Pro Phe Thr Ser Ala Gln Thr Gly  
 1 5 10

<210> 313  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Gly Thr Gly Trp Asp Phe Gly Leu Ala Ala Val Cys Leu Arg Ala Ala  
 1 5 10 15

Glu Val Ala Gly Ser Phe Lys  
 20

<210> 314  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Gly Tyr Arg Arg Val Phe Glu Glu Tyr Met Arg Val Ile Ser Gln Arg  
 1 5 10 15

Tyr Pro Asp Ile Arg Ile Glu Gly Glu Asn Tyr Leu Pro Gln Pro Ile  
 20 25 30

Tyr Arg His Ile Ala Ser Phe Leu Ser Val Phe Lys Leu Val Leu Ile  
                   35                                  40                                  45

Gly Leu Ile Ile Val Gly Lys Asp Pro Phe Ala Phe Phe Gly Met Gln  
           50                                  55                                  60

Ala Pro Ser Ile Trp Gln Trp Gly Gln Glu Asn Lys Val Tyr Ala Cys  
       65                                  70                                  75                                  80

Met Met Val Phe Phe Leu Ser Asn Met Ile Glu Asn Gln Cys Met Ser  
                                   85                                  90                                  95

Thr Gly Ala Phe Glu Ile Thr Leu Asn Asp Val Pro Val Trp Ser Lys  
                   100                                  105                                  110

Leu Glu Ser Gly His Leu Pro Ser Met Gln Gln Leu Val Gln Ile Leu  
           115                                  120                                  125

Asp Asn Glu Met Lys Leu Asn Val His Met Asp Ser Ile Pro His His  
       130                                  135                                  140

Arg Ser  
 145

<210> 315

<211> 34

<212> PRT

<213> Homo sapiens

<400> 315

Gly Tyr Arg Arg Val Phe Glu Glu Tyr Met Arg Val Ile Ser Gln Arg  
       1                                  5                                  10                                  15

Tyr Pro Asp Ile Arg Ile Glu Gly Glu Asn Tyr Leu Pro Gln Pro Ile  
                   20                                  25                                  30

Tyr Arg

<210> 316

<211> 34

<212> PRT

<213> Homo sapiens

<400> 316

His Ile Ala Ser Phe Leu Ser Val Phe Lys Leu Val Leu Ile Gly Leu  
       1                                  5                                  10                                  15

Ile Ile Val Gly Lys Asp Pro Phe Ala Phe Phe Gly Met Gln Ala Pro  
                   20                                  25                                  30

Ser Ile

<210> 317

<211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 317  
 Trp Gln Trp Gly Gln Glu Asn Lys Val Tyr Ala Cys Met Met Val Phe  
     1                    5                    10                    15  
 Phe Leu Ser Asn Met Ile Glu Asn Gln Cys Met Ser Thr Gly Ala Phe  
                     20                    25                    30

Glu Ile

<210> 318  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 318  
 Thr Leu Asn Asp Val Pro Val Trp Ser Lys Leu Glu Ser Gly His Leu  
     1                    5                    10                    15  
 Pro Ser Met Gln Gln Leu Val Gln Ile Leu Asp Asn Glu Met Lys Leu  
                     20                    25                    30

Asn Val His Met  
                     35

<210> 319  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 319  
 Asp Ser Ile Pro His His Arg Ser  
     1                    5

<210> 320  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 320  
 Gly Arg Ala Arg Gly Arg Pro Pro Gly Pro Glu Ala Ala Pro Ala Ser  
     1                    5                    10                    15  
 Leu Ser Val Ser Leu Arg Arg Glu Val His Ser Arg Gly Glu  
                     20                    25                    30

<210> 321  
 <211> 333  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 321

Gln	Thr	Pro	Phe	Thr	Cys	Thr	Leu	Ile	His	Arg	His	Ala	Cys	Xaa	Xaa
1				5				10						15	

Pro	Val	Arg	Xaa	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Gly	Lys	Gln	Ala
	20						25						30		

Leu	Ile	Trp	Leu	Leu	Gly	Val	His	Gly	Glu	Arg	Ile	Pro	Asn	Ala	Pro
	35					40						45			

Tyr	Val	Leu	Glu	Asp	Phe	Val	Glu	Asn	Val	Lys	Ser	Glu	Thr	Phe	Pro
	50				55					60					

Ala	Val	Lys	Met	Glu	Leu	Leu	Thr	Ala	Leu	Leu	Arg	Leu	Phe	Leu	Ser
65				70					75						80

Arg	Pro	Ala	Glu	Cys	Gln	Asp	Met	Leu	Gly	Arg	Leu	Leu	Tyr	Tyr	Cys
				85					90					95	

Ile	Glu	Glu	Glu	Lys	Asp	Met	Ala	Val	Arg	Asp	Arg	Gly	Leu	Phe	Tyr
		100					105						110		

Tyr	Arg	Leu	Leu	Leu	Val	Gly	Ile	Asp	Glu	Val	Lys	Arg	Ile	Leu	Cys
	115					120						125			

Ser	Pro	Lys	Ser	Asp	Pro	Thr	Leu	Gly	Leu	Leu	Glu	Asp	Pro	Ala	Glu
	130					135					140				

Arg	Pro	Val	Asn	Ser	Trp	Ala	Ser	Asp	Phe	Asn	Thr	Leu	Val	Pro	Val
145				150					155					160	

Tyr	Gly	Lys	Ala	His	Trp	Ala	Thr	Ile	Ser	Lys	Cys	Gln	Gly	Ala	Glu
			165					170						175	

Arg	Cys	Asp	Pro	Glu	Leu	Pro	Lys	Thr	Ser	Ser	Phe	Ala	Ala	Ser	Gly
			180					185					190		

Pro	Leu	Ile	Pro	Glu	Glu	Asn	Lys	Glu	Arg	Val	Gln	Glu	Leu	Pro	Asp
	195						200					205			

Ser	Gly	Ala	Leu	Met	Leu	Val	Pro	Asn	Arg	Gln	Leu	Thr	Ala	Asp	Tyr
	210					215					220				

Phe Glu Lys Thr Trp Leu Ser Leu Lys Val Ala His Gln Gln Val Leu  
 225 230 235 240

Pro Trp Arg Gly Glu Phe His Pro Asp Thr Leu Gln Met Ala Leu Gln  
 245 250 255

Val Val Asn Ile Gln Thr Ile Ala Met Ser Arg Ala Gly Ser Arg Pro  
 260 265 270

Trp Lys Ala Tyr Leu Ser Ala Gln Asp Asp Thr Gly Cys Leu Phe Leu  
 275 280 285

Thr Glu Leu Leu Leu Glu Pro Gly Asn Ser Glu Met Gln Ile Ser Val  
 290 295 300

Lys Gln Asn Glu Ala Arg Thr Glu Thr Leu Asn Ser Phe Ile Ser Val  
 305 310 315 320

Leu Glu Thr Val Ile Gly Thr Ile Glu Glu Ile Lys Ser  
 325 330

<210> 322

<211> 12

<212> PRT

<213> Homo sapiens

<400> 322

Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
 1 5 10

<210> 323

<211> 12

<212> PRT

<213> Homo sapiens

<400> 323

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys  
 1 5 10

<210> 324

<211> 14

<212> PRT

<213> Homo sapiens

<400> 324

Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys  
 1 5 10

<210> 325

<211> 27

<212> PRT

<213> Homo sapiens

&lt;400&gt; 325

Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp Gln  
 1 5 10 15

Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys  
 20 25

&lt;210&gt; 326

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 326

Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln  
 1 5 10 15

Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys  
 20 25

&lt;210&gt; 327

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys Gly  
 1 5 10 15

Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys Ser  
 20 25 30

Ala Cys

&lt;210&gt; 328

&lt;211&gt; 389

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu  
 1 5 10 15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln  
 20 25 30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val  
 35 40 45

Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln  
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys  
 65 70 75 80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro  
                             85                            90                            95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg  
                             100                            105                            110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val  
                             115                            120                            125

Asn Val Gln Asn Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr  
                             130                            135                            140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu  
                             145                            150                            155                            160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser  
                             165                            170                            175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro  
                             180                            185                            190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser  
                             195                            200                            205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys  
                             210                            215                            220

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu  
                             225                            230                            235                            240

Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly  
                             245                            250                            255

Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His  
                             260                            265                            270

Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp  
                             275                            280                            285

Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile  
                             290                            295                            300

Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg  
                             305                            310                            315                            320

Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser  
                             325                            330                            335

Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly  
                             340                            345                            350

Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser  
                             355                            360                            365

Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser  
                             370                            375                            380

Gln Ala Gly Ser Leu

385

<210> 329  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 329  
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu  
   1                  5                  10                  15  
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln  
                   20                  25                  30  
 Leu His Leu  
                   35

<210> 330  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 330  
 Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val Val Leu Pro  
   1                  5                  10                  15  
 Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln Pro Trp Glu  
                   20                  25                  30  
 Val Pro Phe  
                   35

<210> 331  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Val Met Trp Phe Phe Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser  
   1                  5                  10                  15  
 Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr  
                   20                  25                  30  
 Ser Met Pro  
                   35

<210> 332  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 332  
 Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp Ser



185

1                    5                    10                    15  
Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asn Lys Gln Gly Lys Ser  
                  20                    25                    30

Arg Gly His  
          35

<210> 333  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 333  
Ser Ile Lys Thr Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro  
1                    5                    10                    15

Ser Cys Arg Leu Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu  
                  20                    25                    30

Ser Cys Gln  
          35

<210> 334  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 334  
Ser Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu  
1                    5                    10                    15

Pro Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly  
                  20                    25                    30

Ser Leu Ser  
          35

<210> 335  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 335  
Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys Lys Ala  
1                    5                    10                    15

His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu Val Ser  
                  20                    25                    30

Thr Gly Pro  
          35

<210> 336

<211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 336  
 Gly Ala Ala Val Val Ala Gly Ala Val Val Gly Thr Leu Val Gly Leu  
           1                  5                  10                  15

Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His Arg Arg Gly Lys Ala  
                   20                  25                  30

Leu Glu Glu  
           35

<210> 337  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Pro Ala Asn Asp Ile Lys Glu Asp Ala Ile Ala Pro Arg Thr Leu Pro  
           1                  5                  10                  15

Trp Pro Lys Ser Ser Asp Thr Ile Ser Lys Asn Gly Thr Leu Ser Ser  
                   20                  25                  30

Val Thr Ser  
           35

<210> 338  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Ala Arg Ala Leu Arg Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu  
           1                  5                  10                  15

Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu  
                   20                  25                  30

Pro Thr Thr  
           35

<210> 339  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Asp Gly Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser  
           1                  5                  10                  15

Ser Ser Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala  
                   20                  25                  30

Gln Ser Gln Ala Gly Ser Leu  
35

<210> 340  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 340  
Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys  
1 5 10 15

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu  
20 25 30

Val Ser Thr Gly  
35

<210> 341  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 341  
Gly Ser Ser Phe Val Val Ser Glu Gly Ser Tyr Leu Asp Ile Ser Asp  
1 5 10 15

Trp Leu Asn Pro Ala Lys Leu Ser Leu Tyr Tyr  
20 25

<210> 342  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 342  
Leu Asp Ile Ser Asp Trp Leu Asn Pro Ala Lys Leu  
1 5 10

<210> 343  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 343  
Ser Asp Trp Leu Asn Pro Ala Lys Leu Ser Leu  
1 5 10

<210> 344  
<211> 13  
<212> PRT  
<213> Homo sapiens

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<210> 345
<211> 21
<212> PRT
<213> Homo sapiens
```

```
<210> 346
<211> 23
<212> PRT
<213> Homo sapiens
```

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<210> 347
<211> 123
<212> PRT
<213> Homo sapiens
```

```
<400> 347
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
   1                               5               10                   15

Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
      20                25                      30

Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
     35                     40                       45

Gln Ser Cys Met Asn Cys Val Ile Leu Ser Val Leu Ser Phe Phe Phe
    50                          55                      60

Leu Ile Arg Trp Ile Ser Lys Ile Val Ala Val Gln Lys Leu Glu Ser
   65                         70                 75                   80

Ser Ser Arg Arg Lys Pro Ile Leu Phe Leu Ile Ile Ser Cys Glu Ile
      85                             90                       95

Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met Ser Ala Glu Cys Cys
    100                        105                  110
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Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr  
 115 120

<210> 348  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu  
 1 5 10 15

Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu  
 20 25

<210> 349  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 349  
 Gln Gly Phe Thr Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro  
 1 5 10 15

Asp Pro Cys Trp Gln Ser Cys Met Asn Cys Val Ile  
 20 25

<210> 350  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 Leu Ser Val Leu Ser Phe Phe Phe Leu Ile Arg Trp Ile Ser Lys Ile  
 1 5 10 15

Val Ala Val Gln Lys Leu Glu Ser Ser Ser Arg Arg Lys Pro Ile Leu  
 20 25 30

Phe Leu Ile  
 35

<210> 351  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Ile Ser Cys Glu Ile Ala Ser Phe Ile His Leu Phe Leu Ser Gln Met  
 1 5 10 15

Ser Ala Glu Cys Cys Cys Phe Tyr Leu Val Ile Leu Ile Cys Lys Tyr  
 20 25 30

<210> 352  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 352  
 Lys Val Asp Thr Pro Arg Arg His Phe Cys Pro Glu Ile Ser Phe Phe  
   1                  5                  10                  15  
 Leu Thr Pro Leu Pro Gln Ser Ala Arg Asn Ser Thr Val Arg Asn Ala  
                   20                  25                  30  
 Leu Ser Gly Leu Lys Asn Leu Thr Pro Ala Met Ile Ser Thr Val Ser  
           35                  40                  45  
 Lys Gln Asp Thr Ser Lys Leu Gly Glu Glu Glu  
       50                  55

<210> 353  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Pro Thr Arg Pro Pro Thr Arg Pro Leu Ser Phe Thr Phe Thr Lys Gln  
   1                  5                  10                  15  
 Thr Ser Ser Thr Cys Leu Ser Leu His Phe  
           20                  25

<210> 354  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 354  
 Leu Glu Cys Val Leu Leu Ile Cys Phe Arg Ala Met Ser Ala Ile Tyr  
   1                  5                  10                  15  
 Thr His Thr Ser Ile Gly Asn Ala Gln Lys Leu Phe Thr Asp Gly Ser  
           20                  25                  30  
 Ala Phe Arg Arg Val Arg Glu Pro Leu Pro Lys Glu Gly Lys Ser Trp  
       35                  40                  45  
 Pro Gln  
       50

<210> 355  
 <211> 22

<212> PRT  
 <213> Homo sapiens

<400> 355  
 Lys Gln Asn Leu Thr Asn Leu Asp Val Pro Val Gln Tyr His Val Ala  
           1                  5                  10                  15  
 Leu Ser Asp Lys Val Lys  
                   20

<210> 356  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 356  
 Pro Ser Cys Pro Pro Glu Met Lys Lys Glu Leu Pro Val Asp Ser Cys  
           1                  5                  10                  15  
 Leu Pro Arg Ser Leu Glu Leu His Pro Gln Lys Met Asp Pro Lys Arg  
                   20                  25                  30  
 Gln His Ile Gln Leu Leu Ser Ser Leu Thr Glu Cys Leu Thr Val Asp  
                   35                  40                  45  
 Pro Leu Ser Ala Ser Val Trp Arg Gln Leu Tyr Pro Lys His Leu Ser  
           50                  55                  60  
 Gln Ser Ser Leu Leu Leu Xaa His Leu Leu Ser Ser Trp Glu Gln Ile  
           65                  70                  75                  80  
 Pro Lys Lys Val Gln Lys Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys  
                   85                  90                  95  
 Leu Thr Asn Gln Glu Leu Leu Arg Lys Gly Ser Ser Asn Asn Gln Asp  
                   100                  105                  110  
 Val Val Thr Cys Asp  
                   115

<210> 357  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 357  
 Lys Ala Pro Tyr Ser Trp Leu Ala Asp Ser Trp Pro His Pro Ser Arg  
           1                  5                  10                  15  
 Ser Pro Ser Ala Gln Glu Pro Arg Gly Ser Cys Cys Pro Ser Asn Pro  
                   20                  25                  30

Asp Pro Asp Asp Arg Tyr Tyr Asn Glu Ala Gly Ile Ser Leu Tyr Leu  
           35                                  40                                  45  
 Ala Gln Thr Ala Arg Gly Thr Ala Ala Pro Gly Glu Gly Pro Val Tyr  
           50                                  55                                  60  
 Ser Thr Ile Asp Pro Ala Gly Glu Glu Leu Gln Thr Phe His Gly Gly  
           65                                  70                                  75                                  80  
 Phe Pro Gln His Pro Ser Gly Asp Leu Gly Pro Trp Ser Gln Tyr Ala  
                                   85                                  90                                  95  
 Pro Pro Glu Trp Ser Gln Gly  
                                   100

<210> 358  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 358  
 Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala  
           1                                  5                                  10                                  15  
 Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp  
                                   20                                  25                                  30  
 Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp  
                                   35                                  40

<210> 359  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 359  
 Glu Gln Leu Thr Gln Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu  
           1                                  5                                  10                                  15  
 Gly Phe Pro Leu Ser Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala  
                                   20                                  25                                  30  
 Glu Glu Gly Ala Gln Glu Arg Pro Leu Pro Thr Asp Glu  
                                   35                                  40                                  45

<210> 360  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 360  
 Met Ala Pro Gly Arg Gly Leu Trp Leu Gly Arg Leu Phe Gly Val Pro  
           1                                  5                                  10                                  15



Gly Gly Pro Ala Glu Asn Glu Asn Gly Ala Leu Lys Ser Arg Arg Pro  
                   20                  25                  30

Ser Ser Trp Leu Pro Pro Thr Val Ser Val Leu Ala Leu  
           35                  40                  45

<210> 361  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 361  
 Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser Pro Gln Glu Leu Glu  
   1                  5                  10                  15

Ala Ser Ala Pro Arg Met Val Gln Thr His Arg Ala Val Arg Ala Leu  
           20                  25                  30

Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu Ser  
           35                  40

<210> 362  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 362  
 Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu Asp  
   1                  5                  10                  15

Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val Gly  
           20                  25                  30

Tyr Thr Ser Leu Val Leu  
           35

<210> 363  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 363  
 Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala  
   1                  5                  10                  15

Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp  
           20                  25                  30

Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp Glu Gln Leu Thr Gln  
           35                  40                  45

Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser  
           50                  55                  60

Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln

65		70		75		80
Glu Arg Pro Leu Pro Thr Asp Glu Met Ala Pro Gly Arg Gly Leu Trp						
	85		90			95
Leu Gly Arg Leu Phe Gly Val Pro Gly Gly Pro Ala Glu Asn Glu Asn						
	100		105			110
Gly Ala Leu Lys Ser Arg Arg Pro Ser Ser Trp Leu Pro Pro Thr Val						
	115		120			125
Ser Val Leu Ala Leu Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser						
	130		135			140
Pro Gln Glu Leu Glu Ala Ser Ala Pro Arg Met Val Gln Thr His Arg						
	145		150		155	160
Ala Val Arg Ala Leu Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu						
	165		170			175
Ser Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu						
	180		185			190
Asp Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val						
	195		200			205
Gly Tyr Thr Ser Leu Val Leu						
	210		215			

&lt;210&gt; 364

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 364

Ala Arg Ala Cys Pro Arg Xaa Gly Ala Ala Val Glu Lys Leu Gly Gly						
1		5		10		15

Lys Pro Val Gln Pro Asp Ser Lys Pro Thr Cys Cys Ser Gln Val Lys						
	20		25			30

Ala Glu Gly Leu Ile Phe Ala Gly Leu Thr Gly Leu Lys Leu Leu Pro						
	35		40			45

Ser Ser Leu Gln Arg Ala Val Phe Val Arg Gln Cys Leu Gly Phe Trp						
	50		55			60

Asn Asp Gly Ser Arg Ala Leu Gln		
	65	70

&lt;210&gt; 365

<211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (130)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 365  
 Met Ser Pro Asn Leu Asn Ala Thr His Thr Ser Ala Gln Thr Pro Gly  
           1                  5                  10                  15  
 Phe Met Glu Arg Lys Thr Thr His Thr Val Ala Gln Ala Leu Ser His  
                   20                  25                  30  
 Ala Val Arg Thr Ile Arg Gly Ala Arg Ser Pro Leu Arg Pro Asp Ala  
                   35                  40                  45  
 Ser Arg Thr Pro Thr Ser Cys Gln Met Ser Thr Gln Ser Leu Leu Ile  
           50                  55                  60  
 Cys Lys Ala Arg Leu Pro Ser Phe Gln Asn Pro Arg His Cys Leu Thr  
           65                  70                  75                  80  
 Lys Thr Ala Leu Cys Lys Glu Leu Gly Ser Asn Leu Ser Pro Val Arg  
                   85                  90                  95  
 Pro Ala Lys Ile Ser Pro Ser Ala Leu Thr Cys Glu Gln His Val Gly  
           100                  105                  110  
 Leu Glu Ser Gly Trp Thr Gly Phe Pro Pro Ser Phe Ser Thr Ala Ala  
           115                  120                  125  
 Pro Xaa Leu Gly Gln Ala Arg Ala  
           130                  135

<210> 366  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 366  
 Phe Gln Ser Val Tyr His Met Lys Leu Gln Ser Ser Asn Leu Pro Ala  
           1                  5                  10                  15  
 Ser Val Tyr Gly Asn Asn Leu Asn Cys Ile Asn Ser Ser Ser Ser  
           20                  25                  30

<210> 367  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

<400> 367  
 Gly Leu Ser Ile His Asp Gly Thr Trp Lys Ser Ala Ile Tyr Gly Phe

1                      5                      10                      15  
 Gly Asp Gln Ser Asn Leu Arg Lys Leu Arg Asn Val Ser Asn Leu Lys  
                          20                                      25                                      30  
 Pro Val Pro Leu Ile Gly Pro Lys Leu Lys Arg Arg Trp Pro Ile Ser  
                          35                                      40                                      45  
 Tyr Cys Arg Glu Leu Lys Gly Tyr Ser Ile Pro Phe Met Gly Ser Asp  
                          50                                      55                                      60  
 Val Ser Val Val Arg Arg Thr Gln Arg Tyr Leu Tyr Glu Asn Leu Glu  
                          65                                      70                                      75                                      80  
 Glu Ser Pro Val Gln Tyr Ala Ala Tyr Val Thr Val Gly Gly Ile Thr  
    85                                      90                                      95  
 Ser Val Ile Lys Leu Met Phe Ala Gly Leu Phe Phe Leu Phe Phe Val  
    100                                      105                                      110  
 Arg Phe Gly Ile Gly Arg Gln Leu Leu Ile Lys Phe Pro Trp Phe Phe  
    115                                      120                                      125  
 Ser Phe Gly Tyr Phe Ser Lys Gln Gly Pro Thr Gln Lys Gln Ile Asp  
    130                                      135                                      140  
 Ala Ala Ser Phe Thr Leu Thr Phe Phe Gly Gln Gly Tyr Ser Gln Gly  
    145                                      150                                      155                                      160  
 Thr Gly Thr Asp Lys Asn Lys Pro Asn Ile Lys Ile Cys Thr Gln Val  
    165                                      170                                      175  
 Lys Gly Pro Glu Ala Gly Tyr Val Ala Thr Pro Ile Ala Met Val Gln  
    180                                      185                                      190  
 Ala Ala Met Thr Leu Leu Ser Asp Ala Ser His Leu Pro Lys Ala Gly  
    195                                      200                                      205  
 Gly Val Phe Thr Pro Gly Ala Ala Phe Ser Lys Thr Lys Leu Ile Asp  
    210                                      215                                      220  
 Arg Leu Asn Lys His Gly Ile Glu Phe Ser Val Ile Ser Ser Ser Glu  
    225                                      230                                      235                                      240  
 Val

<210> 368  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 368  
 Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala  
    1                                      5                                      10                                      15  
 Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile

20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln  
35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg  
50 55 60

<210> 369  
<211> 229  
<212> PRT  
<213> Homo sapiens

<400> 369  
Met Asp Pro Asp Arg Ala Phe Ile Cys Gly Glu Ser Arg Gln Phe Ala  
1 5 10 15

Gln Cys Leu Ile Phe Gly Phe Leu Phe Leu Thr Ser Gly Met Leu Ile  
20 25 30

Ser Val Leu Gly Ile Trp Val Pro Gly Cys Gly Ser Asn Trp Ala Gln  
35 40 45

Glu Pro Leu Asn Glu Thr Asp Thr Gly Asp Ser Glu Pro Arg Met Cys  
50 55 60

Gly Phe Leu Ser Leu Gln Ile Met Gly Pro Leu Ile Val Leu Val Gly  
65 70 75 80

Leu Cys Phe Phe Val Val Ala His Val Lys Lys Arg Asn Thr Leu Asn  
85 90 95

Ala Gly Gln Asp Ala Ser Glu Arg Glu Glu Gly Gln Ile Gln Ile Met  
100 105 110

Glu Pro Val Gln Val Thr Val Gly Asp Ser Val Ile Ile Phe Pro Pro  
115 120 125

Pro Pro Pro Pro Tyr Phe Pro Glu Ser Ser Ala Ser Ala Val Ala Glu  
130 135 140

Ser Pro Gly Thr Asn Ser Leu Leu Pro Asn Glu Asn Pro Pro Ser Tyr  
145 150 155 160

Tyr Ser Ile Phe Asn Tyr Gly Thr Pro Thr Ser Glu Gly Ala Ala Ser  
165 170 175

Glu Arg Asp Cys Glu Ser Ile Tyr Thr Ile Ser Gly Thr Asn Ser Ser  
180 185 190

Ser Glu Ala Ser His Thr Pro His Leu Pro Ser Glu Leu Pro Pro Arg  
195 200 205

Tyr Glu Glu Lys Glu Asn Ala Ala Ala Thr Phe Leu Pro Leu Ser Ser  
210 215 220

Glu Pro Ser Pro Pro

225

<210> 370  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 370  
 Phe Asp Phe Ile Ala Ser Leu Leu Lys Ala Asn Arg Leu Ser Leu Gln  
           1                  5                  10                  15  
 Thr Cys Glu Leu Leu Leu Ala Ala Ala Leu Leu Pro Ser Glu Arg Tyr  
                   20                  25                  30  
 Lys Ala Ile Ser Ile  
                   35

<210> 371  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 371  
 Met Asn Lys Lys Ala Glu Leu Lys Pro Ser Ala Leu Pro Gly Trp Ala  
           1                  5                  10                  15  
 Asn Val Trp Lys Leu Met Cys Leu Val Thr Val Cys Ala Ser Leu Ile  
                   20                  25                  30  
 Ile Thr Ser Asp Ser Val Val Ser Thr Val Arg Leu Lys Gly Ser Cys  
                   35                  40                  45  
 Glu Asp Tyr Leu Gly Leu Ser Cys Gly Asn Thr Ser His Ala Tyr  
           50                  55                  60

<210> 372  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<400> 372  
 Met Ser Ala Asp Gly Ala Glu Ala Asp Gly Ser Thr Gln Val Thr Val  
           1                  5                  10                  15  
 Glu Glu Pro Val Gln Gln Pro Ser Val Val Asp Arg Val Ala Ser Met  
                   20                  25                  30  
 Pro Leu Ile Ser Ser Thr Cys Asp Met Val Ser Ala Ala Tyr Ala Ser  
                   35                  40                  45  
 Thr Lys Glu Ser Tyr Pro His Val Lys Thr Val Cys Asp Ala Ala Glu  
           50                  55                  60  
 Lys Gly Val Arg Thr Leu Thr Ala Ala Ala Val Ser Gly Ala Gln Pro  
           65                  70                  75                  80

Ile Leu Ser Lys Leu Glu Pro Gln Ile Ala Ser Ala Ser Glu Tyr Ala  
 85 90 95  
 His Arg Gly Leu Asp Lys Leu Glu Glu Asn Leu Pro Ile Leu Gln Gln  
 100 105 110  
 Pro Thr Glu Lys Val Leu Ala Asp Thr Lys Glu Leu Val Ser Ser Lys  
 115 120 125  
 Val Ser Gly Ala Gln Glu Met Val Ser Ser Ala Lys Asp Thr Val Ala  
 130 135 140  
 Thr Gln Leu Ser Glu Ala Val Asp Ala Thr Arg Gly Ala Val Gln Ser  
 145 150 155 160  
 Gly Val Asp Lys Thr Lys Ser Val Val Thr Gly Gly Val Gln Ser Val  
 165 170 175  
 Met Gly Ser Arg Leu Gly Gln Met Val Leu Ser Gly Val Asp Thr Val  
 180 185 190  
 Leu Gly Lys Ser Glu Glu Trp Ala Asp Asn His Leu Pro Leu Thr Asp  
 195 200 205  
 Ala Glu Leu Ala Arg Ile Ala Thr Ser Leu Asp Gly Phe Asp Val Ala  
 210 215 220  
 Ser Val Gln Gln Gln Arg Gln Glu Gln Ser Tyr Phe Val Arg Leu Gly  
 225 230 235 240  
 Ser Leu Ser Glu Arg Leu Arg Gln His Ala Tyr Glu His Ser Leu Gly  
 245 250 255  
 Lys Leu Arg Ala Thr Lys Gln Arg Ala Gln Glu Ala Leu Leu Gln Leu  
 260 265 270  
 Ser Gln Ala Leu Ser Leu Met Glu Thr Val Lys Gln Gly Val Asp Gln  
 275 280 285  
 Lys Leu Val Glu Gly Gln Glu Lys Leu His Gln Met Trp Leu Ser Trp  
 290 295 300  
 Asn Gln Lys Gln Leu Gln Gly Pro Glu Lys Glu Pro Pro Lys Pro Glu  
 305 310 315 320  
 Gln Val Glu Ser Arg Ala Leu Thr Met Phe Arg Asp Ile Ala Gln Gln  
 325 330 335  
 Leu Gln Ala Thr Cys Thr Ser Leu Gly Ser Ser Ile Gln Gly Leu Pro  
 340 345 350  
 Thr Asn Val Lys Asp Gln Val Gln Gln Ala Arg Arg Gln Val Glu Asp  
 355 360 365  
 Leu Gln Ala Thr Phe Ser Ser Ile His Ser Phe Gln Asp Leu Ser Ser  
 370 375 380

Ser Ile Leu Ala Gln Ser Arg Glu Arg Val Ala Ser Ala Arg Glu Ala  
 385 390 395 400

Leu Asp His Met Val Glu Tyr Val Ala Gln Asn Thr Pro Val Thr Trp  
 405 410 415

Leu Val Gly Pro Phe Ala Pro Gly Ile Thr Glu Lys Ala Pro Glu Glu  
 420 425 430

Lys Lys

<210> 373

<211> 66

<212> PRT

<213> Homo sapiens

<400> 373

Met Leu Cys Lys Ser Leu Leu Tyr Cys Val Val Ser Tyr Leu Tyr Tyr  
 1 5 10 15

Phe Val Phe Ile Tyr Phe Phe Pro Val Phe Leu Ile Cys Ser Trp Leu  
 20 25 30

Glu Leu Gln Met Trp Asn Leu Gln Ile Gly Arg Ala Asp Cys Phe Gln  
 35 40 45

Asn Thr Leu Val Tyr Val Leu Ser Leu Cys Leu Gln Tyr Lys Asn His  
 50 55 60

Pro Ala  
 65

<210> 374

<211> 25

<212> PRT

<213> Homo sapiens

<400> 374

Ile Asp Leu Ser Phe Pro Ser Thr Asn Val Ser Leu Glu Asp Arg Asn  
 1 5 10 15

Thr Thr Lys Pro Ser Val Asn Val Gly  
 20 25

<210> 375

<211> 12

<212> PRT

<213> Homo sapiens

<400> 375

Val Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly  
 1 5 10



<210> 376  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 376  
 Gly Gly Gln Ile Thr Arg Ser Gly Asp Gln Asp Gln Pro Asp Gln His  
           1                  5                  10                  15

Gly

<210> 377  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Gly Phe Thr Met Leu Val Arg Leu Val Leu Ile Ser  
           1                  5                  10

<210> 378  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 378  
 Pro Arg Asp Leu Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly  
           1                  5                  10                  15

Met Ser His Pro Ala Arg Pro Lys Leu Leu Phe Asn  
                   20                  25

<210> 379  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 379  
 Pro Phe Trp Ala Ala Glu Ser Ala Leu Asp Phe His Trp Pro Phe Gly  
           1                  5                  10                  15

Gly Ala Leu Cys Lys Met Val Leu Thr Ala Thr Val Leu Asn Val Tyr  
                   20                  25                  30

Ala Ser Ile Phe Leu Ile Thr Ala Leu Ser Val Ala Arg Tyr  
           35                  40                  45

<210> 380  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 380

Thr His Ala Asp Lys Asn Gln Val Arg Asn Ser Asn  
 1 5 10

<210> 381  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 381  
 Gln Phe Leu Ser Trp Glu Gln Cys Thr Gly Asn Thr Glu Ser Gln  
 1 5 10 15

<210> 382  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 382  
 Val Arg Arg Pro Lys Ala Lys Gly Xaa Gln Thr Ser Asn  
 1 5 10

<210> 383  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 383  
 Pro Thr Gln Leu Asn Lys His Lys Pro Thr Thr Lys Glu Arg Arg Arg  
 1 5 10 15

Lys Gly Leu

<210> 384  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 384  
 Leu Ile Ser Lys His Glu Asn Ile Tyr  
 1 5

<210> 385  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 385  
 Thr Leu Tyr Ile Xaa Xaa Met Xaa Thr Gln Thr Trp Arg Asp Gln Gly  
           1                  5                  10                  15  
 Arg Cys Gly Arg Asp Xaa Ile Asn Cys Ile Val  
                   20                  25

<210> 386  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 386  
 Ser Leu Cys Thr Pro Gly Arg Gly Trp Glu Glu Ser Trp Gly Ser Ser  
           1                  5                  10                  15  
 Leu Pro Asn Leu Thr Gly Trp Ser Val Ser Ser Leu Asp Asn Asn Asp  
                   20                  25                  30  
 Val

<210> 387  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 387  
 Met Gln Val Ala Leu Lys Glu Asp Leu Asp Ala Leu Lys Glu Lys Phe  
           1                  5                  10                  15  
 Arg Thr Met Glu Ser Asn Gln Lys Ser Ser Phe Gln Glu Ile Pro Lys

[illegible]

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<210> 388
<211> 43
<212> PRT
<213> Homo sapiens
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<400> 388
Met Gln Val Ala Leu Lys Glu Asp Leu Asp Ala Leu Lys Glu Lys Phe
  1                      5                      10                      15

Arg Thr Met Glu Ser Asn Gln Lys Ser Ser Phe Gln Glu Ile Pro Lys
          20                      25                      30

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Leu Asn Glu Glu Leu Leu Ser Lys Gln Lys Gln  
35 40

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<210> 389  
<211> 43  
<212> PRT  
<213> Homo sapiens
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<400> 389

Leu Glu Lys Ile Glu Ser Gly Glu Met Gly Leu Asn Lys Val Trp Ile  
 1 5 10 15

Asn Ile Thr Glu Met Asn Lys Gln Ile Ser Leu Leu Thr Ser Ala Val  
 20 25 30

Asn His Leu Lys Ala Asn Val Lys Ser Ala Ala  
 35 40

<210> 390

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 390

Asp Leu Ile Ser Leu Pro Thr Thr Val Glu Gly Leu Gln Lys Ser Val  
 1 5 10 15

Ala Ser Ile Gly Xaa Thr Leu Asn Ser Val His Leu Ala Val Glu Ala  
 20 25 30

Leu Gln Lys Thr Val Asp Glu His Lys Lys Thr  
 35 40

<210> 391

<211> 43

<212> PRT

<213> Homo sapiens

<400> 391

Met Glu Leu Leu Gln Ser Asp Met Asn Gln His Phe Leu Lys Glu Thr  
 1 5 10 15

Pro Gly Ser Asn Gln Ile Ile Pro Ser Pro Ser Ala Thr Ser Glu Leu  
 20 25 30

Asp Asn Lys Thr His Ser Glu Asn Leu Lys Gln  
 35 40

<210> 392

<211> 32

<212> PRT

<213> Homo sapiens

<400> 392

Met Gly Asp Arg Ser Ala Thr Leu Lys Arg Gln Ser Leu Asp Gln Val  
 1 5 10 15

Thr Asn Arg Thr Asp Thr Val Lys Ile Gln Ser Ile Lys Lys Glu Gly  
 20 25 30

<210> 393  
 <211> 258  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (161)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 393  
 Asp Ser Glu Ser Ser Ser Glu Glu Glu Glu Glu Phe Gly Val Val Gly  
           1                  5                  10                  15  
 Asn Arg Ser Arg Phe Ala Lys Gly Asp Tyr Leu Arg Cys Cys Lys Ile  
                   20                  25                  30  
 Cys Tyr Pro Leu Cys Gly Phe Val Ile Leu Ala Ala Cys Val Val Ala  
                   35                  40                  45  
 Cys Val Gly Leu Val Trp Met Gln Val Ala Leu Lys Glu Asp Leu Asp  
           50                  55                  60  
 Ala Leu Lys Glu Lys Phe Arg Thr Met Glu Ser Asn Gln Lys Ser Ser  
           65                  70                  75                  80  
 Phe Gln Glu Ile Pro Lys Leu Asn Glu Glu Leu Leu Ser Lys Gln Lys  
                   85                  90                  95  
 Gln Leu Glu Lys Ile Glu Ser Gly Glu Met Gly Leu Asn Lys Val Trp  
                   100                  105                  110  
 Ile Asn Ile Thr Glu Met Asn Lys Gln Ile Ser Leu Leu Thr Ser Ala  
           115                  120                  125  
 Val Asn His Leu Lys Ala Asn Val Lys Ser Ala Ala Asp Leu Ile Ser  
           130                  135                  140  
 Leu Pro Thr Thr Val Glu Gly Leu Gln Lys Ser Val Ala Ser Ile Gly  
           145                  150                  155                  160  
 Xaa Thr Leu Asn Ser Val His Leu Ala Val Glu Ala Leu Gln Lys Thr  
                   165                  170                  175  
 Val Asp Glu His Lys Lys Thr Met Glu Leu Leu Gln Ser Asp Met Asn  
                   180                  185                  190  
 Gln His Phe Leu Lys Glu Thr Pro Gly Ser Asn Gln Ile Ile Pro Ser  
           195                  200                  205  
 Pro Ser Ala Thr Ser Glu Leu Asp Asn Lys Thr His Ser Glu Asn Leu  
           210                  215                  220

Lys Gln Met Gly Asp Arg Ser Ala Thr Leu Lys Arg Gln Ser Leu Asp  
225 230 235 240

Gln Val Thr Asn Arg Thr Asp Thr Val Lys Ile Gln Ser Ile Lys Lys  
245 250 255

Glu Gly

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<210> 394
<211> 12
<212> PRT
<213> Homo sapiens
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<400> 394  
Ser Pro Gln Phe Leu Ser Ser Lys Ser Leu Pro Thr  
1 5 10

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<210> 395
<211> 107
<212> PRT
<213> Homo sapiens
```

<400> 395  
Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro  
1 5 10 15

Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser  
20 25 30

Val Ser Ala Ala Ala Arg Arg Trp Gly Ser Gly Trp Met Ala Trp Asp  
35 40 45

Pro Trp Asn Gln Ala Ser Gly Arg Tyr Ala Arg Ile Thr Leu Leu Ser  
50 55 60

Val Gln Ala Cys His Gln Pro Thr Val Trp Pro Arg Ala Gly His Ser  
65 70 75 80

Leu Pro Glu Arg Tyr Ser Leu His Pro His Asn Gly Asp Ser Thr His  
85 90 95

Leu Ser Gly Leu Leu Thr Val Lys Cys Gly Ala  
100 105

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<210> 396
<211> 37
<212> PRT
<213> Homo sapiens
```

<400> 396  
Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro  
1 5 10 15

Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser

20

25

30

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<210> 398
<211> 37
<212> PRT
<213> Homo sapiens
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Val Lys Cys Gly Ala  
35

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<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 399  
Gly Pro Pro Ser Pro Arg Gly Leu Pro Ser Leu Pro Leu His Leu Pro  
1 5 10 15  
Ala Pro Arg Arg Tyr Leu Gln Ser Arg Tyr Ala Cys Ser Gln Ser Ser



20	25	30
Val Ser Ala Ala Ala Arg Arg Trp Gly Ser Gly Trp Met Ala Trp Asp		
35	40	45
Pro Trp Asn Gln Ala Ser Gly Arg Tyr Ala Arg Ile Thr Leu Leu Ser		
50	55	60
Val Gln Ala Cys His Gln Pro Thr Val Trp Pro Arg Ala Gly His Ser		
65	70	75
Leu Pro Glu Arg Tyr Ser Leu His Pro His Asn Gly Asp Ser Thr His		
	85	90
Leu Ser Gly Leu Leu Thr Val Lys Cys Gly Ala Met Ala Gly Phe Ala		
	100	105
Ser Tyr Pro Trp Ser Asp Phe Pro Trp Cys Trp Val Val Cys Phe Ser		
	115	120
Phe Xaa Phe Phe Phe Leu Arg Gln Ser Glu Ser Leu Ser Gln Lys Lys		
	130	135
Arg Gln Val Ala Asp Glu Leu Xaa Phe Gly Gln Ser Lys Arg Asp Ser		
145	150	155
Asp Gly Gly Trp Met Leu Arg Ser Ser Ala Gly Asn Ser		
	165	170

&lt;210&gt; 400

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 400

Met Glu Ser Cys Ser Val Val Gln Ala Gly Val Lys Trp Cys Asp Leu
1 5 10 15

Gly Ser Leu Gln Pro Pro Pro Arg Phe Lys Gln Phe Ser Trp Glu Val
20 25 30

Glu Val Ala Val Ser Arg Asp His Thr Ile Ala Leu Gln Xaa Gly Gly
---

35                      40                      45  
 Gln Ser Lys Xaa Leu Ser Gln Lys Lys Glu Lys Lys Tyr Val Leu Asn  
     50                      55                      60  
 Ala Thr Phe Leu Asn Phe Tyr Phe Cys Arg Asp Lys Val Leu Leu Cys  
     65                      70                      75                      80  
 Cys Pro Gly Trp Ser His Ile Val Gly Leu Lys Gln Ser Ser His Leu  
                     85                      90                      95  
 Gly Leu Arg Lys Cys Trp Asp Tyr Arg His Gly Pro Leu Xaa Leu Ala  
                     100                      105                      110  
 Leu Cys His Phe Val Cys Lys  
                     115

<210> 401  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 401  
 Asn Gln Glu Asn Ser Leu Gln Thr Asn Ser Tyr Leu Asp Ser Thr Glu  
     1                      5                      10                      15

Ser Lys

<210> 402  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 402  
 Gln Lys Arg Ala Cys Phe Pro Phe Ala Phe Cys Arg Asp Cys Gln Phe  
     1                      5                      10                      15

Xaa Glu Xaa Ser Pro Ala Met Leu Pro Val Gln Pro Ala Xaa Leu  
                     20                      25                      30

<210> 403  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 403  
 Val Ser Ala His Gly Ile Trp Leu Phe Arg Ser  
           1                  5                  10

<210> 404  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 404  
 Lys His Ala Ala Pro Pro Ala Ser Leu Ser Leu Ser Leu Leu His  
           1                  5                  10                  15

His Gly Gln Lys Arg Ala Cys Phe Pro Phe Ala Phe Cys Arg Asp Cys  
                   20                  25                  30

Gln Phe Xaa Glu Xaa Ser Pro Ala Met Leu Pro Val Gln Pro Ala Xaa  
           35                  40                  45

Leu

<210> 405  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 405  
 Met Cys Asp Asn Leu Ile Met Leu Arg Thr Leu Met Arg Tyr Ile Val  
           1                  5                  10                  15

Phe Leu Ser Leu Gln Cys Leu Trp Gly Gln Gly Thr His Ser Ser Cys  
                   20                  25                  30

Tyr Pro Pro Ser Pro Leu Arg Leu Pro Leu Phe Phe Phe Leu Asp Ile

35                      40                      45  
 Lys Leu Gly Ile Ser Asn Trp Pro Val Val Met Gln Ser Cys Phe Ala  
     50                      55                      60  
 Leu Tyr Leu Ala Gly Leu Ile Cys Leu Thr Arg Ser His Glu Ala Ile  
     65                      70                      75                      80  
 Gly Arg Ser Ser Leu Ser Pro Ser Ser Ser Ala Pro Lys Val Val Ala  
                     85                      90                      95  
 Arg Gly Val Pro Ser  
                     100

<210> 406  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 406  
 Met Leu Val Leu Met Thr Leu Phe Leu Leu Leu Tyr Tyr Arg Tyr Val  
     1                      5                      10                      15  
 Tyr Gly Phe Gly Val Cys Val Tyr Val His Ile Tyr Ala His Ile Tyr  
                     20                      25                      30  
 Thr His Thr His Ile Tyr Asn Gln Leu Ser Ile Ala Tyr Ser Ser Leu  
                     35                      40                      45  
 Ile Ile Tyr Ile Leu Tyr Ser Asn Phe Ser Asn Thr Pro Thr Lys Ser  
     50                      55                      60  
 Phe Ser Pro Pro Tyr Gln Tyr Tyr Asn Val Pro Asp Asn Asn Ile Thr  
     65                      70                      75                      80  
 Asn Pro Ala Leu Thr Pro Thr Asp Phe Phe Glu Asn Lys Gln Leu Leu  
                     85                      90                      95  
 His Ala Ile Ser Phe Leu Tyr Ser Pro Thr Gly Phe Leu Gln Pro Pro  
                     100                      105                      110  
 Ala His Pro Val Gln Leu Arg Thr Ser Thr Thr Leu Tyr Gly Asn His  
                     115                      120                      125  
 Arg Gly Gln Thr Gly Cys Ser Gln Leu Asp  
     130                      135

<210> 407  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
 Ser Asn Thr Pro Thr Lys Ser Phe Ser Pro Pro Tyr Gln Tyr Tyr Asn  
     1                      5                      10                      15

Val Pro Asp Asn Asn Ile Thr Asn Pro Ala Leu Thr Pro Thr Asp Phe  
                   20                  25                  30

Phe Glu Asn Lys Gln Leu Leu His Ala Ile Ser Phe Leu Tyr Ser Pro  
           35                  40                  45

Thr Gly Phe Leu Gln Pro Pro Ala His Pro Val Gln Leu Arg Thr Ser  
       50                  55                  60

Thr Thr Leu  
   65

<210> 408

<211> 12

<212> PRT

<213> Homo sapiens

<400> 408

Met Glu Met Asn Tyr Cys Gly Ser Arg Val Leu Tyr  
   1                  5                  10

<210> 409

<211> 61

<212> PRT

<213> Homo sapiens

<400> 409

Leu Gly Ser Pro Ile Ile Pro Leu Trp Ser Tyr Thr Ser Ala Thr Gln  
   1                  5                  10                  15

Ala Ala Ala Leu Val Thr Ser His Val Trp Lys Pro Ser Leu Glu Ala  
           20                  25                  30

His Gln Ile Asn Ile Ser Pro Glu Pro Ser Ile His Tyr Asp Arg Trp  
       35                  40                  45

His Thr Gln Ser Asn Cys Ser Leu Ile Asn Ser Leu Gln  
       50                  55                  60

<210> 410

<211> 12

<212> PRT

<213> Homo sapiens

<400> 410

Ile Pro Glu Glu Ala Ser Cys Phe Pro Ser Ala Val  
   1                  5                  10

<210> 411

<211> 17

<212> PRT

<213> Homo sapiens

<400> 411

Glu Ile Leu Phe Gly Lys Leu Lys Ser Lys Ala Ala Leu Cys Thr Gln  
 1                      5                      10                      15

Gly

<210> 412  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 412  
 His Ala Asp Arg Tyr Thr Cys Cys Arg Cys Leu Ser Pro Phe Ser Leu  
 1                      5                      10                      15

Ala Gly Leu

<210> 413  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 413  
 Leu Ser Asp Pro Leu Leu Leu Pro Asp Cys Ser Phe Ser Phe Asn  
 1                      5                      10                      15

<210> 414  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 414  
 Lys Ala Val Ala Tyr Ala Asn Val Ser Cys Arg Arg Phe Lys His Lys  
 1                      5                      10                      15

Thr Thr Lys Leu Gly Pro Ile Gln Trp  
 20                      25

<210> 415  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 415  
 Pro Ser Ser Gln Ser Pro Glu Pro Pro Gln Pro Leu Ser Leu Phe Val  
 1                      5                      10                      15

Thr Arg Leu Pro Asn Leu Tyr Asp Phe Pro  
 20                      25

<210> 416  
 <211> 19

<212> PRT  
 <213> Homo sapiens

<400> 416  
 Ser Arg Gln Ile Ile Cys Thr Asn Leu Cys Lys Cys Thr Pro Ile Cys  
           1                  5                  10                  15

Phe Leu Phe

<210> 417  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 417  
 Lys Gly Ser Leu Pro Trp Arg Leu Leu Leu Pro Leu Asn Gly Pro  
           1                  5                  10                  15

<210> 418  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 418  
 Leu Cys Arg Leu Val Phe Glu Ser Ser Ala Gly His Val Ser Val Cys  
           1                  5                  10                  15

His Ser Phe

<210> 419  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 419  
 Met Leu Leu Pro Val Asn Thr Leu Leu Tyr Ile  
           1                  5                  10

<210> 420  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 420  
 Leu Leu Thr Pro Leu Cys Phe Phe Tyr Gly Thr Ser Arg Pro  
           1                  5                  10

<210> 421  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 421  
Pro Tyr Leu Glu Leu Val Thr  
1 5

<210> 422  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 422  
Leu Leu Lys Lys Lys Lys Gln Ser Val Gly Phe Ser Val  
1 5 10

<210> 423  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 423  
Cys Ile Leu Glu Ala Gly Arg  
1 5

<210> 424  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 424  
Met Gly Phe Ser Ala Pro Thr Pro Gly Pro Leu  
1 5 10

<210> 425  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 425  
Phe Asp Leu Arg Arg Leu Ile Leu Ser Ile Val  
1 5 10

<210> 426  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 426  
Ala Phe Cys Pro His Val Thr Pro Cys Lys Tyr Ala Val Ile His Thr  
1 5 10 15

Val



<210> 427  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 427  
 Asn Thr Pro Leu Leu Phe Leu Trp Asp Leu Gln  
           1                  5                  10

<210> 428  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 428  
 Ala Thr Ile Phe Arg Thr Ser Tyr Leu Ile Lys Lys Glu Lys Thr Val  
           1                  5                  10                  15

Cys

<210> 429  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 429  
 Trp Leu Leu Ser Leu His Leu Gly Gly Arg Glu Val Arg Ala Gly Ala  
           1                  5                  10                  15

Pro

<210> 430  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Gln Thr Leu Gln Glu Gly Ser Leu His Ser Ile  
           1                  5                  10

<210> 431  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 431  
 Met Gly Phe Ser Ala Pro Thr Pro Gly Pro Leu Phe Asp Leu Arg Arg  
           1                  5                  10                  15

Leu Ile Leu Ser Ile Val Ala Phe Cys Pro His Val Thr Pro Cys Lys  
                   20                  25                  30

Tyr Ala Val Ile His Thr Val Asn Thr Pro Leu Leu Phe Leu Trp Asp  
                   35                                  40                                  45

Leu Gln Ala Thr Ile Phe Arg Thr Ser Tyr Leu Ile Lys Lys Glu Lys  
                   50                                  55                                  60

Thr Val Cys Trp Leu Leu Ser Leu His Leu Gly Gly Arg Glu Val Arg  
                   65                                  70                                  75                                  80

Ala Gly Ala Pro Gln Thr Leu Gln Glu Gly Ser Leu His Ser Ile  
                                   85                                  90                                  95

<210> 432

<211> 33

<212> PRT

<213> Homo sapiens

<400> 432

Tyr Trp Val Ser Ile Ser Gln Arg Ser Val Cys Gln Gln Ala Arg Thr  
                   1                                  5                                  10                                  15

Ser Ile Phe Phe Lys Asp Gly Leu Ser Arg Glu Lys Tyr Ser Asn Asn  
                                   20                                  25                                  30

Gly

<210> 433

<211> 160

<212> PRT

<213> Homo sapiens

<400> 433

Leu Ser Val Arg Ala Pro Gly Val Pro Ala Ala Arg Pro Arg Leu Ser  
                   1                                  5                                  10                                  15

Ser Ala Arg Gln Ala Gly Ala Gly Arg Gly Glu Leu Arg Gly Gln Arg  
                                   20                                  25                                  30

Leu Trp Leu Gly Pro Glu Cys Gly Cys Gly Ala Gly Gln Ala Gly Ser  
                   35                                  40                                  45

Met Leu Arg Ala Val Gly Ser Leu Leu Arg Leu Gly Arg Gly Leu Thr  
                   50                                  55                                  60

Val Arg Cys Gly Pro Gly Ala Pro Leu Glu Ala Thr Arg Arg Pro Ala  
                   65                                  70                                  75                                  80

Pro Ala Leu Pro Pro Arg Gly Leu Pro Cys Tyr Ser Ser Gly Gly Ala  
                                   85                                  90                                  95

Pro Ser Asn Ser Gly Pro Gln Gly His Gly Glu Ile His Arg Val Pro  
                   100                                  105                                  110

Thr Gln Arg Arg Pro Ser Gln Phe Asp Lys Lys Ile Leu Leu Trp Thr

115 120 125  
 Gly Arg Phe Lys Ser Met Glu Glu Ile Pro Pro Arg Ile Pro Pro Glu  
 130 135 140  
 Met Ile Asp Thr Ala Arg Asn Lys Ala Arg Val Lys Ala Cys Tyr Ile  
 145 150 155 160

<210> 434  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 434  
 Leu Ser Val Arg Ala Pro Gly Val Pro Ala Ala Arg Pro Arg Leu Ser  
 1 5 10 15  
 Ser Ala Arg Gln Ala Gly Ala Gly Arg Gly Glu Leu Arg Gly Gln Arg  
 20 25 30  
 Leu Trp Leu Gly  
 35

<210> 435  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 435  
 Pro Glu Cys Gly Cys Gly Ala Gly Gln Ala Gly Ser Met Leu Arg Ala  
 1 5 10 15  
 Val Gly Ser Leu Leu Arg Leu Gly Arg Gly Leu Thr Val Arg Cys Gly  
 20 25 30  
 Pro Gly

<210> 436  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Ala Pro Leu Glu Ala Thr Arg Arg Pro Ala Pro Ala Leu Pro Pro Arg  
 1 5 10 15  
 Gly Leu Pro Cys Tyr Ser Ser Gly Gly Ala Pro Ser Asn Ser Gly Pro  
 20 25 30  
 Gln Gly

```
<210> 437
<211> 27
<212> PRT
<213> Homo sapiens
```

<400> 437  
His Gly Glu Ile His Arg Val Pro Thr Gln Arg Arg Pro Ser Gln Phe  
1 5 10 15

Asp Lys Lys Ile Leu Leu Trp Thr Gly Arg Phe  
20 25

```
<210> 438
<211> 29
<212> PRT
<213> Homo sapiens
```

<400> 438  
Lys Ser Met Glu Glu Ile Pro Pro Arg Ile Pro Pro Glu Met Ile Asp  
1 5 10 15

Thr Ala Arg Asn Lys Ala Arg Val Lys Ala Cys Tyr Ile  
20 25

```
<210> 439
<211> 57
<212> PRT
<213> Homo sapiens
```

<400> 439  
Cys Ser Pro Gly Gln Asp Glu Met Gln Asp Glu Thr Trp Cys Ser Gly  
1 5 10 15

Gln Ser Glu Thr Val Asn Glu Ala Lys Gln Leu Arg Thr Thr His Ser  
20 25 30

Arg Val Pro Asn Gln Gln Val Cys Val Cys Gly Trp Leu Pro Val Asn  
35 40 45

Ile Ser Pro His Ser Pro Leu Lys Lys  
50 55

```
<210> 440
<211> 147
<212> PRT
<213> Homo sapiens
```

<400> 440  
Met Ser Gly Asp Val Cys Val Phe Gly Tyr Ala His Leu His Ser Gln  
1 5 10 15

Thr Lys His Ser Gly Ser Gln Gly Trp Val Leu Ile Tyr Leu Phe Ala  
20 25 30

Met Gln Lys Ile Ser Cys Thr Lys Leu Pro Leu Leu Arg Asn Leu Lys  
                   35                                  40                                  45

Leu Asn Leu Val Trp Leu Ser Gln Gly Trp Val Phe Phe Lys Gly Leu  
           50                                  55                                  60

Trp Gly Glu Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp  
       65                                  70                                  75                                  80

Leu Gly Thr Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr  
                                   85                                  90                                  95

Val Ser Asp Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp  
                   100                                  105                                  110

Pro Gly Glu His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His  
           115                                  120                                  125

Ser Leu Gly Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly  
       130                                  135                                  140

Val Gly Ile  
 145

<210> 441

<211> 15

<212> PRT

<213> Homo sapiens

<400> 441

Leu Asn Ile Leu Ile Ser Leu Thr Val Ser Ser His Cys Lys Leu  
       1                                  5                                  10                                  15

<210> 442

<211> 13

<212> PRT

<213> Homo sapiens

<400> 442

Ile Asn Tyr His Ser Gly Phe Ile His Gln Phe Leu Ala  
       1                                  5                                  10

<210> 443

<211> 11

<212> PRT

<213> Homo sapiens

<400> 443

Met Ala Asn Asn Ser Leu Ser Ser Gln Phe Ile  
       1                                  5                                  10

<210> 444

<211> 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 444

Ile Ser Gly Val Leu Ile Phe Asn Leu Ile Ala Ser Ser Trp Val Leu  
 1                      5                      10                      15

Cys Phe Pro Leu Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile Phe  
                     20                      25                      30

Phe Ala Ser Phe Phe His Ala Val Cys Val His Val Ser Cys Thr Ser  
                     35                      40                      45

Trp Gln Pro Leu Val Leu Phe Ile Lys Trp Trp Val Val Gly Cys Ser  
                     50                      55                      60

Pro  
 65

&lt;210&gt; 445

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 445

Cys Asp Leu Ser Cys Gln Lys Thr Leu Arg Ile Phe Phe Ala Ser Phe  
 1                      5                      10                      15

Phe His Ala Val Cys Val His  
                     20

&lt;210&gt; 446

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 446

Glu Leu Ala Ile Gly Glu Ser Cys Ser  
 1                      5

&lt;210&gt; 447

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 447

Pro Val Ile Trp Pro Asp Gly Lys Arg Ile Val Leu Leu Ala Glu Val  
 1                      5                      10                      15

Ser

&lt;210&gt; 448

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 448

Phe Tyr Tyr Phe Trp Arg Gln Gly Gly Ser Cys Phe Val Gln Thr Gly  
 1 5 10 15

Val Gln Trp Cys Asp His Gly Ser Leu Gln Leu  
 20 25

&lt;210&gt; 449

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 449

Thr Pro Gly Arg Gln Ser Lys Thr Pro Ser  
 1 5 10

&lt;210&gt; 450

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 450

Tyr Phe Ile Ile Phe Gly Asp Arg Glu Gly Leu Ala Leu Phe Arg Leu  
 1 5 10 15

Glu Cys Ser Gly Val Ile Met Ala His Cys Asn Phe Glu Leu Leu Gly  
 20 25 30

Asp Arg

&lt;210&gt; 451

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

Cys Phe Leu Ser Val Ser Phe Gln Trp Asn  
 1 5 10

&lt;210&gt; 452

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 452

Val Thr Ile Ala Gln Val Gly Ile Phe Val Cys Phe Val His Cys Cys  
 1 5 10 15

Thr

<210> 453  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 453  
 Pro Gly Gln Val Pro Ser Lys His Leu Gly Ser Asn Ala Ser Val Arg  
           1                  5                  10                  15

Ala

<210> 454  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 454  
 Asp Glu Gly Ala Lys Val Gln Arg Arg Pro Trp Gly Ser Gln Thr His  
           1                  5                  10                  15

Ser Pro Val Leu Phe Leu  
                   20

<210> 455  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Leu Thr Arg Pro Gly Leu Trp Gly Ser Leu Leu Pro Val Gln Gln Gln  
           1                  5                  10                  15

Arg Gly

<210> 456  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 456  
 Cys Ala Ser Leu Gly Val Leu Arg Ala Asn Arg Ser Pro Cys Val  
           1                  5                  10                  15

<210> 457  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 457  
 Ser Trp Leu Glu Val Thr Thr Leu Ser Ala Pro Gly Pro Val Ile Thr



1

5

10

15

Thr Tyr

&lt;210&gt; 458

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 458

Pro	Gly	Gln	Trp	Val	Arg	Glu	Ile	Xaa	Leu	Val	Gly	Arg	Ala	Val	Ala
1				5					10					15	

Arg Val

&lt;210&gt; 459

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 459

Leu	Thr	Trp	Pro	Pro	Xaa	Gly	Pro	Met	Gly	Thr	Val	Trp	Pro	Gly	Phe
1				5					10					15	

&lt;210&gt; 460

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 460

Met	Ala	Asp	Ile	Pro	Gly	Thr	Phe	Leu	Ala	Leu	Gly	Cys	His	Gly	Gln
1				5				10						15	

Arg

&lt;210&gt; 461

&lt;211&gt; 15

&lt;212&gt; PRT

<213> Homo sapiens

<400> 461

Val Gly Arg Gly Ser Trp Ala Ser Gly Trp Thr Asn Gln Ser Ala  
 1 5 10 15

<210> 462

<211> 16

<212> PRT

<213> Homo sapiens

<400> 462

Pro Asp His Pro Leu Pro Val Gly Leu Leu Glu Ala Trp Arg Val Glu  
 1 5 10 15

<210> 463

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 463

Trp Gly Ser Gln Thr His Ser Pro Val Leu Phe Leu Leu Thr Arg Pro  
 1 5 10 15

Gly Leu Trp Gly Ser Leu Leu Pro Val Gln Gln Gln Arg Gly Cys Ala  
 20 25 30

Ser Leu Gly Val Leu Arg Ala Asn Arg Ser Pro Cys Val Ser Trp Leu  
 35 40 45

Glu Val Thr Thr Leu Ser Ala Pro Gly Pro Val Ile Thr Thr Tyr Pro  
 50 55 60

Gly Gln Trp Val Arg Glu Ile Xaa Leu Val Gly Arg Ala Val Ala Arg  
 65 70 75 80

Val Leu Thr Trp Pro Pro Xaa Gly Pro Met Gly Thr Val Trp Pro Gly  
 85 90 95

Phe Met Ala Asp Ile Pro Gly Thr Phe Leu Ala Leu Gly Cys His Gly  
 100 105 110

Gln Arg Val Gly Arg Gly Ser Trp Ala Ser Gly Trp Thr Asn Gln Xaa

115

120

125

Ser Ala Phe Pro Ala Gly Pro Pro Asp His Pro Leu Pro Val  
 130 135 140

&lt;210&gt; 464

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 464

Leu Ala Arg Ala Asp Pro Pro Gly Cys Arg Arg Arg Gly Trp Arg Pro  
 1 5 10 15

Ser Ser Ala Glu Leu Gln Leu Arg Leu Leu Thr Pro Thr Phe Glu Gly  
 20 25 30

Ile Asn Gly Leu Leu Leu Lys Gln His Leu Val Gln Asn Pro Val Arg  
 35 40 45

Leu Trp Gln Leu Leu Gly Gly Thr Phe Tyr Phe Asn Thr Ser Arg Leu  
 50 55 60

Lys Gln Lys Asn Lys Glu Lys Asp Lys Ser Lys Gly Lys Ala Pro Glu  
 65 70 75 80

Glu Asp Glu Xaa Glu Arg Arg Arg Arg Glu Arg Asp Asp Gln  
 85 90

&lt;210&gt; 465

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

Phe Leu Arg Phe Trp Cys Thr Cys His Val Ser Ser  
 1 5 10